

Contents

Number 1 January 2002

1 EDITORIAL BOARD, 2002

**3 GUEST REVIEWERS FOR
THE ANNALS OF THORACIC SURGERY**

PRESIDENT'S PAGE

- 9 Implementation of the 2000–2001 Strategic Plan Begins: New Bylaws and More**
Mark B. Orringer, MD

PRESIDENTIAL ADDRESS

- 11 A Passion to Heal**
William F. Sasser, MD

EDITORIAL

- 15 Writing in a Borrowed Tongue**
L. Henry Edmunds, Jr, MD

**ORIGINAL ARTICLES:
CARDIOVASCULAR**

- 17 Yearly Rupture or Dissection Rates for Thoracic Aortic Aneurysms: Simple Prediction Based on Size**
Ryan R. Davies, BA, Lee J. Goldstein, MD, Michael A. Coady, MD, Shawn L. Tittle, MD, John A. Rizzo, PhD, Gary S. Kopf, MD, and John A. Elefteriades, MD

- 29 Aortic Valve Reimplantation in Ascending Aortic Aneurysm: Risk Factors for Early Valve Failure**
Klaus Pethig, MD, Andrea Milz, Christian Hagl, MD, Wolfgang Harringer, MD, and Axel Haverich, MD

- 34 Mitral Stenosis After Mitral Valve Repair for Non-Rheumatic Mitral Regurgitation**
Mohamed F. Ibrahim, MD, and Tirone E. David, MD

- 37 Clinical Outcome in Patients With 19-mm and 21-mm St. Jude Aortic Prostheses: Comparison at Long-Term Follow-up**
Aldo D. Milano, MD, Marco De Carlo, MD, Gianclaudio Mecozzi, MD, Alessandro D'Alfonso, MD, Giovanni Scioti, MD, Carmela Nardi, MD, and Uberto Bortolotti, MD

- 44 Long-Term Results With Triple Valve Surgery**
Michel Carrier, MD, Michel Pellerin, MD, Denis Bouchard, MD, Louis P. Perrault, MD, PhD, Raymond Cartier, MD, Yves Hébert, MD, Arsène Basmadjian, MD, Pierre Pagé, MD, and Nancy C. Poirier, MD

- 48 Apical Ventricular Septal Defects: Follow-up Concerning Anatomic and Surgical Considerations**
Stella Van Praagh, MD, John E. Mayer, Jr, MD, Norman B. Berman, MD, Michael F. Flanagan, MD, Tal Geva, MD, and Richard Van Praagh, MD

Invited Commentary
Kirk R. Kanter, MD

- 58 Surgical Repair of Supposedly Multiple Defects Within the Apical Part of the Muscular Ventricular Septum**
Victor T. Tsang, FRCS, Tain-Yen Hsia, MD, Robert W. M. Yates, MRCP, and Robert H. Anderson, FRCPath

Invited Commentary
Tetsuya Kitagawa, MD

- 64 Fontan's Operation: Is Aspirin Enough? Is Coumadin Too Much?**
Marshall L. Jacobs, MD, Kamal K. Pourmoghadam, MD, Elaine M. Geary, RNCRNP, Angelo T. Reyes, MD, Nandini Madan, MD, Lynn B. McGrath, MD, and John W. Moore, MD

- 69 Surgical Results of Double-Orifice Left Atrioventricular Valve Associated With Atrioventricular Septal Defects**
Toshihide Nakano, MD, Hideaki Kado, MD, Yuichi Shiokawa, MD, and Kouji Fukae, MD

- 76 Total Cavopulmonary Connection With an Extracardiac Conduit: Experience With 100 Patients**
Shigehiko Tokunaga, MD, Hideaki Kado, MD, Yutaka Imoto, MD, Munetaka Masuda, MD, Yuichi Shiokawa, MD, Kouji Fukae, MD, Naoki Fusazaki, MD, Shiro Ishikawa, MD, and Hisataka Yasui, MD
- 81 Apico-Aortic Conduits in Children With Severe Left Ventricular Outflow Tract Obstruction**
Sohit K. Khanna, MD, Mark P. Anstadt, MD, Shabir Bhimji, MD, Mary M. Bannan, CRNFA, Kwabena Mawulawde, MD, G. Lionel Zumbro, MD, and H. Victor Moore, MD
- 88 Successful Late Reintervention After the Arterial Switch Procedure**
Sanjiv K. Gandhi, MD, Frank A. Pigula, MD, and Ralph D. Siewers, MD
- 96 How to Diminish Reoperation Rates After Initial Repair of Tetralogy of Fallot?**
Bernard Faidutti, MD, Jan T. Christenson, MD, Maurice Beghetti, MD, Beat Friedli, MD, and Afksendiyos Kalangos, MD
- 102 Arrhythmia After Modified Total Cavopulmonary Connection Without Use of Prosthetic Material**
Takaaki Suzuki, MD, Takayasu Murai, MD, Masaaki Sato, MD, Tsutomu Ito, MD, and Toyoki Fukuda, MD
- 107 Atrial Size and Transport Function After the Maze III Procedure for Paroxysmal Atrial Fibrillation**
Stefan Lönnérholm, MD, Per Blomström, MD, Leif Nilsson, MD, and Carina Blomström-Lundqvist, MD
- 112 Magnesium-Supplemented Warm Blood Cardioplegia in Patients Undergoing Coronary Artery Revascularization**
Mark Yeatman, FRCS, Massimo Caputo, MD, Pradeep Narayan, FRCS, Attilio A. Lotto, MD, Raimondo Ascione, MD, Alan J. Bryan, FRCS, and Gianni D. Angelini, FRCS
- 119 Injury of the Common Peroneal Nerve After Cardiothoracic Operations**
Jaime F. Vazquez-Jimenez, MD, Gabriele Krebs, MD, Johannes Schiefer, MD, Jörg S. Sachweh, MD, Oliver J. Liakopoulos, MD, Georg Wendt, MD, and Bruno J. Messmer, MD
Invited Commentary
Norig Ellisn, MD
- 123 Inhibition of Neutrophil Apoptosis After Coronary Bypass Operation With Cardiopulmonary Bypass**
Massimo Chello, MD, Pasquale Mastroroberto, MD, Angela Quirino, PhD, Giovanni Cuda, MD, Francesco Perticone, MD, Francesco Cirillo, MD, and Elvio Covino, MD
Invited Commentary
Philippe Menasché, MD, PhD
- 131 Flow Dynamics in Internal Thoracic Artery Grafts 10 Years After Coronary Artery Bypass Grafting**
Yukio Ichikawa, MD, Hirokazu Kajiwara, MD, Yasuharu Noishiki, MD, Ichiya Yamazaki, MD, Kenji Yamamoto, MD, Takayuki Kosuge, MD, Sunao Sato, MD, and Yoshinori Takanashi, MD
Invited Commentary
Louis P. Perrault, MD, PhD, and Roland G. Demaria, MD
- 138 Association of Bacterial Infection and Red Blood Cell Transfusion After Coronary Artery Bypass Surgery**
Scott B. Chelemer, MD, B. Stephen Prato, MA, Paul M. Cox, Jr, MD, Gerald T. O'Connor, DSc, and Jeremy R. Morton, MD
- 143 The Radial Artery in Coronary Surgery: A 5-Year Experience—Clinical and Angiographic Results**
James Tatoulis, FRACS, Alistair G. Royse, FRACS, Brian F. Buxton, FRACS, John A. Fuller, FRACP, Peter D. Skillington, FRACS, John C. Goldblatt, FRACS, Robin P. Brown, FRACS, and Michael A. Rowland, FRACS
- 149 Left Pleural Effusion After Coronary Artery Bypass Decreases With a Supplemental Pleural Drain**
Maryann Payne, MD, George J. Magovern, Jr, MD, Daniel H. Benkart, MD, Alexander Vasilakis, MD, Gary W. Szydłowski, MD, John C. Cardone, MD, Gary C. Marrone, MD, John A. Burkholder, D, and James A. Magovern, MD
- 153 Evaluating Routine Diuretics After Coronary Surgery: A Prospective Randomized Controlled Trial**
Eric Lim, MRCS, Ziad A. Ali, MB, ChB (Hons), Robert Attaran, MB, ChB, and Graham Cooper, MD, FRCS(C/Th)
- 156 Myocardial Immediate Early Gene Activation After Cardiopulmonary Bypass With Cardiac Ischemia-Reperfusion**
David P. Nelson, MD, Stephanie Burns Wechsler, MD, Takuya Miura, MD, Amy Stagg, Jane W. Newburger, MD, John E. Mayer, Jr, MD, and Elli J. Neufeld, MD

- 163 Lamotrigine Plus Leukocyte Filtration as a Neuroprotective Strategy in Experimental Hypothermic Circulatory Arrest**
Jussi Rimpiläinen, MD, Pekka Romsi, MD, Matti Pokela, MS, Jorma Hirvonen, MD, PhD, Vilho Vainionpää, MD, PhD, Kai T. Kiviluoma, MD, PhD, Fausto Biancari, MD, PhD, Pasi Ohtonen, MS, Ville Jäntti, MD, PhD, Vesa Anttila, MD, PhD, and Tatu Juvonen, MD, PhD
- 173 Long-Term Treatment With Nipradilol, a Nitric Oxide-Releasing β -Adrenergic Blocker, Enhances Postischemic Recovery and Limits Infarct Size**
Yoshihiro Suematsu, MD, Toshiya Ohtsuka, MD, Hitoshi Horimoto, MD, Katsuhide Maeda, MD, Yasunari Nakai, MD, Shigetoshi Mieno, MD, and Shinichi Takamoto, MD
- Invited Commentary*
Hikaru Matsuda, MD, PhD
- 180 Combination of Alpha-Stat Strategy and Hemodilution Exacerbates Neurologic Injury in Survival Piglet Model With Deep Hypothermic Circulatory Arrest**
Takahiko Sakamoto, MD, David Zurakowski, PhD, Lennart F. Duebener, MD, Shin'ichi Hatsuoka, MD, Hart G. W. Lidov, MD, PhD, Gregory L. Holmes, MD, Ulrich A. Stock, MD, Peter C. Laussen, MD, and Richard A. Jonas, MD
- Invited Commentary*
Ross M. Ungerleider, MD
- 191 Effect of Hypothermia on Cerebral Blood Flow and Metabolism in the Pig**
Marek P. Ehrlich, MD, Jock N. McCullough, MD, Ning Zhang, MD, Donald J. Weisz, PhD, Tatu Juvonen, MD, Carol A. Bodian, DrPH, and Randall B. Griepp, MD
- Invited Commentary*
Thierry P. Carrel, MD, FECTS
- 198 Profound Reduction in Brain Embolization Using an Endoaortic Baffle During Bypass in Swine**
David J. Cook, MD, Kenton J. Zehr, MD, Thomas A. Orszulak, MD, and Jared M. Slater, BA
- 203 Comparing Dual-Stream and Standard Cardiopulmonary Bypass in Pigs**
John A. Macoviak, MD, Jimmy Hwang, PhD, Kelly L. Boerjan, BS, and Dwight D. Deal, BS

ORIGINAL ARTICLES: GENERAL THORACIC

- 209 Lung Transplantation for Pulmonary Vascular Disease**
Eric N. Mendeloff, MD, Bryan F. Meyers, MD, Thoralf M. Sundt, MD, Tracey J. Guthrie, BSN, Stuart C. Sweet, MD, Maite de la Morena, MD, Steve Shapiro, MD, David T. Balzer, MD, Elbert P. Trulock, MD, John P. Lynch, MD, Michael K. Pasque, MD, Joel D. Cooper, MD, Charles B. Huddleston, MD, and G. Alexander Patterson, MD
- 220 Melatonin Attenuates Posttransplant Lung Ischemia-Reperfusion Injury**
Ilhan Inci, MD, Demet Inci, MD, André Dutly, MD, Annette Boehler, MD, and Walter Weder, MD
- Invited Commentary*
Karl S. Ulicny, Jr, MD
- 226 Pulmonary Blood Flow Is Inhomogeneously Reduced After Euro Collins-Preservation and Lung Transplantation**
Matthias Brinkmann, MD, Jochen Börgermann, MD, Fred H. Splittgerber, MD, Jan Spillner, MD, Jürgen Christoph Reidemeister, MD, PhD, Oliver Kuss, BS, and Ivar Friedrich, MD
- 233 C1-Esterase Inhibitor Reduces Reperfusion Injury After Lung Transplantation**
Mirela Scherer, MD, Stefanos Demertzis, MD, PhD, Frank Langer, MD, Anton Moritz, MD, PhD, and Hans-Joachim Schäfers, MD, PhD
- Invited Commentary*
Steven M. Fiser, MD, and Curtis G. Tribble, MD
- 240 Full Thoracoscopic Approach for Surgical Management of Invasive Pulmonary Aspergillosis**
Dominique Gossot, MD, Pierre Validire, MD, Rosaire Vaillancourt, MD, Gérard Socié, MD, Hélène Esperou, MD, Agnes Devergie, MD, Philippe Guardiola, MD, Dominique Grunenwald, MD, Eliane Gluckman, MD, PhD, and Patricia Ribaud, MD
- 245 Inter-Observer Variability in Systematic Nodal Dissection: Comparison of European and Japanese Nodal Designation**
Shun-ichi Watanabe, MD, George Ladas, FRCS, and Peter Goldstraw, FRCS
- Invited Commentary*
Tsuguo Naruke, MD

- 250 Extended Cervical Mediastinoscopy in the Diagnosis of Anterior Mediastinal Masses**
Muzaffer Metin, MD, Adnan Sayar, MD, Akif Turna, MD, and Atilla Gürses, MD
- 253 Characteristics and Prognosis of Resected T3 Non-Small Cell Lung Cancer**
Marc Riquet, MD, PhD, Loïc Lang-Lazdunski, MD, PhD, Françoise Le Pimpec-Barthes, MD, Antoine Dujon, MD, Redha Souilamas, MD, Claire Danel, MD, and Dominique Manac'h, MD
- 259 An Initial Experience With FDG-PET in the Imaging of Residual Disease After Induction Therapy for Lung Cancer**
Tim Akhurst, MD, Robert J. Downey, MD, Michelle S. Ginsberg, MD, Mithat Gonan, PhD, Manjit Bains, MD, Robert Korst, MD, Robert J. Ginsberg, MD, Valerie W. Rusch, MD, and Steven M. Larson, MD
- 267 Esophageal Atresia: Historical Evolution of Management and Results in 371 Patients**
Jacqueline A. Deurloo, MD, Seine Ekkelkamp, MD, Mak Schoorl, MD, Hugo A. Heij, MD, PhD, and Daniel C. Aronson, MD, PhD
- 284 Aortoscopy: A Less Invasive Intraoperative Method to Assess the Aortic Valve**
Eduardo A. Tovar, MD, Jon R. Sherman, MD, David M. Weinberg, MD, Yonghun C. Suh, MD, Ramesh H. Rathod, MD, and Alan Borsari, MD
- 286 Huge Left Atrial Thrombus With Mitral Stenosis in Congenital Factor XII Deficiency**
Tomomi Hasegawa, MD, Masahisa Uematsu, MD, Takuro Tsukube, MD, Yukihiro Takemura, MD, and Yutaka Okita, MD
- 288 Endovascular Stent Grafting of the Descending Thoracic Aorta After Arch Repair in Acute Type A Dissection**
Hiromi Yano, MD, Shin Ishimaru, MD, Satoshi Kawaguchi, MD, and Yukio Obitsu, MD
- 291 Aortic Arch Replacement for Recurrent Cerebral Embolization**
Gilead Lancaster, MD, Constantinos J. Lovoulos, MD, Michael Moussouttas, MD, Andrew H. Goldstein, MD, Dana Leifer, MD, Pierre B. Fayad, MD, Drew Olsen, MD, and John A. Elefteriades, MD
- 294 Delayed Surgical Management of a Traumatic Aortic Arch Injury**
Yvonne M. Carter, MD, Riyad Karmy-Jones, MD, and Gabriel S. Aldea, MD

CASE REPORTS

- 273 Pulmonary Venous Obstruction After Total Cavopulmonary Connection in Heterotaxy**
Tetsuro Uchida, MD, Hideki Uemura, MD, Toshikatsu Yagihara, MD, Shinya Tsukano, MD, and Soichiro Kitamura, MD
- 274 Congenital Mitral-Aortic Discontinuity**
Domingo Liotta, MD, Armando Diluch, MD, Adriano Malusardi, MD, and Miguel del Rio, MD
- 278 Antero-Axillary Access for Hypoplastic Aortic Arch Repair**
Sandra Fraud, MD, Andreas Böning, MD, Jens Scheewe, MD, and Jochen T. Cremer, MD
- 280 Multidose Cardioplegia in a Complex Arterial Switch Procedure**
Renee S. Hartz, MD, Serafin Y. DeLeon, MD, Jaime G. Dorotan, MD, and Elaine M. Urbina, MD
- 282 Absent Pulmonary Valve Syndrome With Aortic Regurgitation in a 50-Year-Old Man**
Pankaj Goel, MCh, Sethurathinam Rajan, MCh, V. M. Kurian, MCh, Raibhan Yadav, MD, and Kotturathu Mammen Cherian, FRACS
- 296 Carbon Dioxide Embolism During Minimally Invasive Vein Harvesting**
Thomas A. Banks, RPA-C, Frank Manetta, MD, Mark Glick, MD, and L. Michael Graver, MD
- 297 Coronary Artery Spasm and Ventricular Fibrillation After Off-Pump Coronary Surgery**
Hartmuth B. Bittner, MD
- 300 Ptosis Postcardiac Surgery: A Case of Pituitary Apoplexy**
Aiman Alzetani, FRCS, Christopher Fisher, MB, Robert Costa, FRACS, and Sunil K. Ohri, FRCS
- 302 Perforating Barrett's Ulcer Resulting in a Life-Threatening Esophagobronchial Fistula**
John J. Nigro, MD, MS, Ross M. Bremner, MD, PhD, Clark B. Fuller, MD, Jörg Theisen, MD, Yanling Ma, MD, and Vaughn A. Starnes, MD
- 304 Necrotizing Soft Tissue Infection of the Chest Wall**
Julian E. Losanoff, MD, James W. Jones, MD, PhD, and Bruce W. Richman, MA
- 306 Donor Transfer of Pulmonary Coccidioidomycosis in Lung Transplantation**
Uttam Tripathy, MD, Gordon L. Yung, MBBS, Jolene M. Kriett, MD, Patricia A. Thistlethwaite, MD, David P. Kapelanski, MD, and Stuart W. Jamieson, FRCS

- 308 Bilateral Lung Transplantation Using a Donor With a Tracheal Right Upper Lobe Bronchus**
Yasuo Sekine, MD, PhD, Stefan Fischer, MD, Marc de Perrot, MD, Andrew F. Pierre, MD, and Shaf Kesavjee, MD
- 310 Tracheobronchoplasty for Resection of Lung Cancer Arising From a Tracheal Bronchus**
Masaaki Sato, MD, Seiki Hasegawa, MD, PhD, Tsuyoshi Shoji, MD, and Hiromi Wada, MD, PhD
- 312 Dyspnea Lusoria: Compression of the Pulmonary Artery by a Kommerell's Diverticulum**
Mahmoud B. Malas, MD, Mark L. Barr, MD, Vaughn A. Starnes, MD, Shelley Shapiro, MD, PhD, Suzanne Palmer, MD, and Daniel S. Schwartz, MD
- 314 Pneumomediastinum During Spontaneous Vaginal Delivery**
Fraser W. H. Sutherland, FRCS, Stephanie Y. G. Ho, MB, and Ciro Campanella, MD

IMAGES IN CARDIOTHORACIC SURGERY

- 316 Complete Resorption of a Thoracic Aortic Aneurysm After Stent-Graft Placement**
Marc R. Moon, MD, Luis A. Sanchez, MD, Thoralf M. Sundt III, MD, and Gregorio A. Sicard, MD
- 317 Left Internal Mammary Artery to Pulmonary Artery Fistula After Minimally Invasive Coronary Bypass**
Luigi Maiello, MD, Giorgio Franciosi, MD, Patrizia Presbitero, MD, and Roberto Gallotti, MD

HOW TO DO IT

- 318 Aortic Valve Exposure Through a Combined Right Atrial-Ascending Aortic Approach in Redo Cases**
Antonio M. Calafiore, MD, Gabriele Di Giammarco, MD, and Giuseppe Vitolla, MD
- 320 Epicardial Ablation of Atrial Fibrillation on the Beating Heart Without Cardiopulmonary Bypass**
Domenico Mazzitelli, MD, Chul-Hyun Park, MD, Kook-Yang Park, MD, Federico J. Benetti, MD, and Ruediger Lange, MD

- 322 Biologic Glue-Molded "Bio-Mini-Paddle" Electrode Used for Atrial and Ventricular Pacing and Defibrillation**
Hiroshi Kubota, MD, Shinichi Takamoto, MD, Arata Murakami, MD, Yutaka Kotsuka, MD, and Akira Furuse, MD

REVIEWS

- 325 Intravenous Milrinone in Cardiac Surgery**
Jerrold H. Levy, MD, James M. Bailey, MD, PhD, and G. Michael Deeb, MD

- 331 First-Stage Palliation for Hypoplastic Left Heart Syndrome in the Twenty-First Century**
Jeffrey M. Pearl, MD, David P. Nelson, MD, PhD, Steven M. Schwartz, MD, and Peter B. Manning, MD

Invited Commentary
Marshall L. Jacobs, MD

CORRESPONDENCE

- 341 "Hearts for All": A Humanitarian Association for the Promotion of Cardiology and Cardiac Surgery in Developing Countries**
Afksendiyos Kalangos, MD

Reply
Amram J. Cohen, MD

- 342 Induced Ventricular Fibrillation in the Management of Aortic Arch Trauma**
Francis Robicsek, MD, PhD

Reply
Inderjit S. Gill, MD, Roger Lim, MD, R. Thomas Temes, MD, and Charles E. Smith, MD

- 342 Cellular Myoplasty: What Are We Really Trying to Achieve?**
Robert C. Gorman, MD, and Joseph H. Gorman III, MD

Reply
Bruno Pouzet, MD, and Philippe Menasché, MD, PhD

- 343 Right Ventricle to Pulmonary Artery Connection After the Ross Procedure: Is it Really a Concern?**
Zohair Al Halees, FRCS

Reply
Ehud Raanani, MD, Terrence M. Yau, MD, MS, and Tirone E. David, MD

- 344 Risk of Coronary Artery Occlusion With Snares During OPCAB**
Roland G. Demaria, MD, Simon Fortier, MD, and Louis P. Perrault, MD, PhD
Reply
Fang-Yue Lin, MD, PhD, and Yih-Sharng Chen, MD
- 345 LIMA Use in the STS Database: A Correction**
Lawrence I. Bonchek, MD
Reply
Heinz R. Zurbrügg, MD, PhD
- 346 Assessing the Radial Artery for a Coronary Bypass Conduit**
Frank A. Baciewicz, Jr, MD
- 346 Dynamic Cardiomyoplasty: "The Truth That Dare Not Speak Its Name"**
John M. Alvarez, FRACS
Reply
David J. Barron, FRCS, and John R. Pepper, FRCS
- 347 Time to Remember P. K. Sen's Legacy**
Ratna A. Magotra, MD
- 348 Postoperative Fluorescence Bronchoscopic Surveillance: A Worthwhile Procedure in a Subset of Patients**
Keyvan Moghissi, FRCS, J. Andrew C. Thorpe, FRCS, and Kate Dixon, BA (Hons)
Reply
Tracey L. Weigel, MD, Valerie W. Rusch, MD, and James D. Luketich, MD
- 349 Durability of the Intercostal Muscle Pedicle**
Nicholas J. Demos, MD
Reply
Joseph B. Shrager, MD, Maher E. Deeb, MD, and Larry R. Kaiser, MD
- 349 Is "Steal" Present in Hemodialysis Patients With Ipsilateral Internal Mammary Graft?**
Frank A. Baciewicz, Jr, and Richard J. Harris, MD
Reply
Yoshihiro Nakayama, MD, and Ryuzo Sakata, MD

SUPPLEMENT: OUTCOMES 2001—Conference on Cardiac and Vascular Surgery: Neurobehavioral Assessment, Physiological Monitoring, and Cerebral Protective Strategies

- S353 Introduction: Outcomes 2001**
John M. Murkin, MD, and David A. Stump, PhD

S355 Program

- S358 Assessing the Learning Curve in Off-Pump Coronary Artery Surgery via CUSUM Failure Analysis**
Richard J. Novick, MD, Stephanie A. Fox, RRCP, Larry W. Stitt, MS, Bob B. Kiaii, MD, Stuart A. Swinamer, MD, Reiza Rayman, MD, Thomas R. Wenske, MD, and W. Douglas Boyd, MD

- S363 Magnetic Resonance Imaging Registration and Quantitation of the Brain Before and After Coronary Artery Bypass Graft Surgery**
Alejandro Kohn, FRCS

S366 Scientific Abstracts

S378 Announcement: Outcomes 2002

ANNOUNCEMENTS

- A-54–56 Events of Interest**
- 57 **Southern Thoracic Surgical Association: Forty-ninth Annual Meeting**
- 95 **Notice From the American Board of Thoracic Surgery**
- 118 **The Society of Thoracic Surgeons: Thirty-eighth Annual Meeting**
- 162 **Internet Discussion Forum**
- 172 **Requirements for Recertification/Maintenance of Certification in 2002**
- 239 **The Thoracic Surgery Foundation for Research and Education**
- 266 **Notice From the American Board of Thoracic Surgery Regarding Trainees and Candidates for Certification Who Are Called to Military Service Related to the War on Terrorism**
- A-57 Southern Thoracic Surgical Association Rules for Submission of Abstracts**
- A-58, 59 Classified Advertisements**
- A-70 Index to Advertisers**

Number 2 February 2002

EDITORIAL

- 379 Our Responsibility for Improving the Care of Elderly Cardiothoracic Surgical Patients**
Joseph LoCicero III, MD

**ORIGINAL ARTICLES:
GENERAL THORACIC**

- 381 Effects of Antireflux Procedures on Respiratory Symptoms**
Kevin L. Greason, CDR, MC, USNR, Daniel L. Miller, MD, Claude Deschamps, MD, Mark S. Allen, MD, Francis C. Nichols III, MD, Victor F. Trastek, MD, and Peter C. Pairolero, MD

- 386 Natural History of Pure Ground-Glass Opacity After Long-Term Follow-up of More Than 2 Years**
Ken Kodama, MD, Masahiko Higashiyama, MD, Hideki Yokouchi, MD, Koji Takami, MD, Keiko Kuriyama, MD, Yoko Kusunoki, MD, Tomio Nakayama, MD, and Fumio Imamura, MD

Invited Commentary
Harvey I. Pass, MD

- 394 Can FDG-PET Reduce the Need for Mediastinoscopy in Potentially Resectable Nonsmall Cell Lung Cancer?**
Kemp H. Kernstine, MD, PhD, Kelley A. McLaughlin, RN, Yusuf Menda, MD, Nicholas P. Rossi, MD, Daniel J. Kahn, MD, David L. Bushnell, MD, Michael M. Graham, MD, PhD, Carl K. Brown, MS, and Mark T. Madsen, PhD

- 403 Detection of Estrogen Receptor by Immunohistochemistry in Pulmonary Adenocarcinoma**
David J. Dabbs, MD, Rodney J. Landreneau, MD, Yulin Liu, MD, Stephen S. Raab, MD, Richard H. Maley, MD, Ming Y. Tung, and Jan F. Silverman, MD

- 407 Role of Fiberscopic Transbronchial Needle Aspiration in the Staging of N2 Disease Due to Non-Small Cell Lung Cancer**
Marco Patelli, MD, Luigi Lazzari Agli, MD, Venerino Poletti, MD, Rocco Trisolini, MD, Alessandra Cancellieri, MD, Nicola Lacava, MD, Franco Falcone, MD, and Maurizio Boaron, MD

- 412 Malignant Minor Pleural Effusion Detected on Thoracotomy for Patients With Non-Small Cell Lung Cancer: Is Tumor Resection Beneficial for Prognosis?**
Noriyoshi Sawabata, MD, Akihide Matsumura, MD, Akira Motohiro, MD, Yoshihiko Osaka, MD, Keiichiro Gennga, MD, Shimao Fukai, MD, and Takashi Mori, MD, for The Japan National Chest Hospital Study Group for Lung Cancer

- 416 "True" Parahiatal Hernia: A Rare Entity Radiologic Presentation and Clinical Management**
Michael G. Scheidler, MD, Robert J. Keenan, MD, Richard H. Maley, Jr, MD, Robert J. Wiechmann, MD, Dennis Fowler, MD, and Rodney J. Landreneau, MD

- 420 Incidence of Major Pulmonary Morbidity After Pneumonectomy: Association With Timing of Smoking Cessation**
Ara A. Vaporciyan, MD, Kelly W. Merriman, MPH, Ferrah Ece, MD, Jack A. Roth, MD, W. Roy Smythe, MD, Stephen G. Swisher, MD, Garrett L. Walsh, MD, Jonathan C. Nesbitt, MD, and Joseph B. Putnam, Jr, MD

- 427 Current Presentation and Optimal Surgical Management of Sternoclavicular Joint Infections**
Howard K. Song, MD, PhD, T. Sloane Guy, MD, Larry R. Kaiser, MD, and Joseph B. Shrager, MD

- 432 Non-Viral Gene Delivery to Atelectatic and Ventilated Lungs**
Uz Stammberger, MD, Aima N. Uduehi, PhD, Bartosz Kubisa, MD, Thierry Roth, MD, and Ralph A. Schmid, MD

**ORIGINAL ARTICLES:
CARDIOVASCULAR**

- 438 Aortic Root Replacement in 271 Marfan Patients: A 24-Year Experience**
Vincent L. Gott, MD, Duke E. Cameron, MD, Diane E. Alejo, BA, Peter S. Greene, MD, Jay G. Shake, MD, David J. Caparrelli, MD, and Harry C. Dietz, MD

- 444 Repair of the Thoracic Aorta by Transaortic Stent Grafting (Open Stenting)**
Naomichi Uchida, MD, Hiroshi Ishihara, MD, Mitsuru Sakashita, MD, Mikihiro Kanou, MD, and Tatsuaki Sumiyoshi, MD

Invited Commentary
Martin Grabenwöger, MD

- 450 Total Aortic Arch Grafting for Acute Type A Dissection: Analysis of Residual False Lumen**
Yoshiharu Takahara, MD, Yoshio Sudo, MD, Kenzi Mogi, MD, Mituyuki Nakayama, MD, and Manabu Sakurai, MD

- 455 Prosthetic Replacement of the Aorta Is a Risk Factor for Aortic Root Aneurysm Development**
Natascha Simon-Kuplik, MD, Heinz Schima, PhD, Leopold Huber, ME, Reinhard Moidl, MD, Gerhard Wipplinger, Udo Losert, MD, Ernst Wolner, MD, and Paul Simon, MD

- 460 Does Ministernotomy Improve Postoperative Outcome in Aortic Valve Operation? A Prospective Randomized Study**
Massimo Bonacchi, MD, Edvin Prifti, MD, Gabriele Giunti, MD, Giacomo Frati, MD, and Guido Sani, MD
Invited Commentary
Alejandro Aris, MD, PhD
- 467 Prosthetic Replacement of Tricuspid Valve: Bioprosthetic or Mechanical**
Mehmet Kaplan, MD, Mustafa Sinan Kut, MD, Mahmut Murat Demirtas, MD, Serdar Cimen, MD, and Azmi Ozler, MD
- 474 Up to 8-Year Follow-up of Valve Replacement With CarboMedics Valve**
Yoshiharu Soga, MD, Hitoshi Okabayashi, MD, PhD, Takeshi Nishina, MD, Sakae Enomoto, MD, PhD, Ichiro Shimada, MD, Tadaomi-Alfonso Miyamoto, MD, and Toshihiko Ban, MD, PhD
Invited Commentary
Jan L. Svennevig, MD, PhD
- 480 A Decade of Change—Risk Profiles and Outcomes for Isolated Coronary Artery Bypass Grafting Procedures, 1990–1999: A Report From the STS National Database Committee and the Duke Clinical Research Institute**
T. Bruce Ferguson, Jr, MD, Bradley G. Hammill, MA, Eric D. Peterson, MD, MPH, Elizabeth R. DeLong, PhD, and Frederick L. Grover, MD, for the STS National Database Committee
Invited Commentary
Shahbuddin H. Rahimtoola, MB
- 491 Operative and 5-Year Outcomes of Combined Carotid and Coronary Revascularization: Review of a Large Contemporary Experience**
Anoar Zacharias, MD, Thomas A. Schwann, MD, Christopher J. Riordan, MD, Paul M. Clark, MD, Bernardo Martinez, MD, Samuel J. Durham, MD, Milo Engoren, MD, and Robert H. Habib, PhD
Invited Commentary
Cary W. Akins, MD
- 499 Coronary Artery Bypass Grafting With Left Internal Mammary Artery and Right Gastroepiploic Artery, With and Without Bypass**
Olivier Chavanon, MD, Michel Durand, MD, Rachid Hacini, MD, Hélène Bouvaist, MD, Marianne Noirclerc, MD, Tarek Ayad, MD, and Dominique Blin, MD
- 505 Minimally Invasive Single-Vessel Coronary Artery Bypass With the Internal Thoracic Artery and Early Postoperative Angiography: Midterm Results of a Prospective Study in 120 Consecutive Patients**
Sérgio A. Oliveira, MD, Luiz Augusto F. Lisboa, MD, Luís Alberto O. Dallan, MD, Salomon O. Rojas, MD, and Luiz F. Poli de Figueiredo, MD, PhD
- 511 Feasibility and Suitability of the Routine Use of Bilateral Internal Thoracic Arteries**
Takashi Hirotani, MD, Shogo Shirota, MD, Yasunori Cho, MD, and Shigeyuki Takeuchi, MD
- 516 Interaction Between Vasodilators and Vasopressin in Internal Mammary Artery and Clinical Significance**
Wei Wei, MD, H. Storm Floten, MD, and Guo-Wei He, MD, PhD
- 523 Endoscopic Versus Open Saphenous Vein Harvest: A Comparison of Postoperative Wound Complications**
Jerene M. Bitondo, PAC, Willard M. Daggett, MD, David F. Torchiana, MD, Cary W. Akins, MD, Alan D. Hilgenberg, MD, Gus J. Vlahakes, MD, Joren C. Madsen, MD, Thomas E. MacGillivray, MD, and Arvind K. Agnihotri, MD
- 529 Beneficial Effects of Inhaled Nitric Oxide in Adult Cardiac Surgical Patients**
Thomas S. Maxey, MD, Christopher D. Smith, MBBS, FRACS, John A. Kern, MD, Curtis G. Tribble, MD, David R. Jones, MD, Irving L. Kron, MD, and Ivan K. Crosby, MBBS, FRCS
- 534 Late Cardiac Reoperation After Cardiac Transplantation**
V. Seenu Reddy, MD, Ho H. Phan, MD, Richard N. Pierson III, MD, Davis C. Drinkwater, Jr, MD, Paul A. Chang, BS, Stacy F. Davis, MD, and Walter H. Merrill, MD
- 538 Extracorporeal Membrane Oxygenation Support for Adult Postcardiotomy Cardiogenic Shock**
Wen-Je Ko, MD, Ching-Yuang Lin, MD, Robert J. Chen, MD, Shoei-Shen Wang, MD, Fang-Yue Lin, MD, and Yih-Sharng Chen, MD
Invited Commentary
Joseph B. Zwischenberger, MD
- 546 And Hemolysis Goes On: Ventricular Assist Device in Combination With Veno-Venous Hemofiltration**
Heyman Luckraz, FRCS, Michael Woods, RGN, Stephen R. Large, FRCS, and The Papworth VAD Group

- 549 Hepatic Dysfunction After Left Ventricular Mechanical Assist in Patients With End-Stage Heart Failure: Role of Inflammatory Response and Hepatic Microcirculation**
Takafumi Masai, MD, Yoshiki Sawa, MD, Shigeaki Otake, MD, Toshiro Nishida, MD, Motonobu Nishimura, MD, Norihide Fukushima, MD, Takashi Yamaguchi, MD, and Hikaru Matsuda, MD
- 556 Non-Blood Contacting Biventricular Support for Severe Heart Failure**
Mark P. Anstadt, MD, Sebastian A. Schulte-Eistrup, MD, Tadashi Motomura, MD, Ernesto R. Soltero, MD, Tamaki Takano, MD, Issam A. Mikati, MD, Kenji Nonaka, MD, Fernando Joglar, MD, and Yukihiko Nosé, MD, PhD
- 563 A Biomechanical Comparison of Three Sternotomy Closure Techniques**
COL David J. Cohen, MD, USA, and Lanny V. Griffin, PhD
- 569 Ischemic Preconditioning and Na⁺/H⁺ Exchange Inhibition Improve Reperfusion Ion Homeostasis**
Steven P. Goldberg, MD, Stanley B. Digerness, PhD, Jonathan L. Skinner, MD, Cheryl R. Killingsworth, DVM, PhD, Charles R. Katholi, PhD, and William L. Holman, MD
- 575 Myocardial Protection by PJ34, a Novel Potent Poly(ADP-Ribose) Synthetase Inhibitor**
Renato Faro, PhD, Yoshiya Toyoda, MD, James D. McCully, PhD, Prakash Jagtap, PhD, Eva Szabo, MD, Laszlo Virág, MD, PhD, Cesario Bianchi, MD, PhD, Sidney Levitsky, MD, Csaba Szabo, MD, PhD, and Frank W. Sellke, MD
Invited Commentary
Ari O. Halldorsson, MD
- 582 Glucose-Insulin-Potassium Solution Improves Left Ventricular Mechanics in Diabetes**
Tharumethiran Ramanathan, MBBS, Kazuaki Shiota, MD, Shin Morita, MD, Takashi Nishimura, MD, PhD, Yifei Huang, MD, PhD, and Stephen N. Hunyor, MD
Invited Commentary
Clyde Saldanha, MB, MD
- 588 Skeletal Muscle Ventricle Aortic Counterpulsation: Function During Chronic Heart Failure**
Bhavik G. Patel, MD, Sachin H. Shah, MD, Lou I. Astra, MD, Robert L. Hammond, PhD, Zulfikar A. Sharif, MD, Phillip J. McDonald, and Larry W. Stephenson, MD
- 594 Intermediate Results of the Anatomic Repair for Congenitally Corrected Transposition**
Michel N. Ilbawi, MD, Catherine B. Ocampo, MD, Bradley S. Allen, MD, Mary Jane Barth, MD, David A. Roberson, MD, Pipit Chiemmongkoltip, MD, and Rene A. Arcilla, MD
- 601 Cytokine Balance in Infants Undergoing Cardiac Operation**
Hedwig H. Hövels-Gürich, MD, Kathrin Schumacher, MD, Jaime F. Vazquez-Jimenez, MD, Ma Qing, MD, Ulrike Hüffmeier, Brigitte Buding, MD, Bruno J. Messmer, MD, Götz von Bernuth, MD, and Marie-Christine Seghaye, MD
Invited Commentary
John A. Hawkins, MD
- 610 β -Receptor Downregulation in Congenital Heart Disease: A Risk Factor for Complications After Surgical Repair?**
Reiner Buchhorn, MD, Martin Hulpke-Wette, MD, Wolfgang Ruschewski, MD, Reinhard Pregla, MD, Jens Fielitz, MD, Roland Hetzer, MD, PhD, and Vera Regitz-Zagrosek, MD, PhD
- 614 Repair of Congenital Malformations of the Mitral Valve: Early and Midterm Results**
Edvin Prifti, MD, PhD, Vittorio Vanini, MD, Massimo Bonacchi, MD, Giacomo Frati, MD, Massimo Bernabei, MD, Gabriele Giunti, MD, Adrian Crucean, MD, Stefano Vincenzo Luisi, MD, and Bruno Murzi, MD
- 622 Impact of Preoperative Aortic Cusp Prolapse on Long-Term Outcome After Surgical Closure of Subarterial Ventricular Septal Defect**
Yiu-fai Cheung, MBBS, Clement S. W. Chiu, MBBS, Tak-cheung Yung, MBBS, and Adolphus K. T. Chau, MBBS
-
- CASE REPORTS**
- 628 Mediastinal Synovial Sarcoma: Report of Two Cases With Molecular Genetic Analysis**
Jacqueline K. Trupiano, MD, Thomas W. Rice, MD, Kevin Herzog, MD, Frederic G. Barr, MD, Janet Shipley, PhD, Cyril Fisher, MD, and John R. Goldblum, MD
- 630 Bilateral Elastofibroma Dorsi**
Akif Turna, MD, Muhammet Ali Yilmaz, MD, Nur Ürer, MD, Mehmet Ali Bedirhan, MD, and Atilla Gürses, MD
- 632 Bronchial Artery Aneurysm Disguised as a Leiomyoma of the Esophagus**
Stéphane Tringali, MD, Olivier Tiffet, MD, Jean L. Berger, MD, and Jacques Cuilleret, MD

- 633 Preoperative Diagnosis of a Paraesophageal Bronchogenic Cyst Using Endosonography**
Li Lin Lim, MRCP, Khek Yu Ho, MD, and Peter Min Goh, FRCS
- 635 Transsternal Transpericardial Closure of a Postlobectomy Bronchopleural Fistula**
Yael Refaely, MD, Michael Paley, MD, David A. Simansky, MD, Yeudit Rozenman, MD, and Alon Yellin, MD
- 637 Successful Repair of an Aortoesophageal Fistula With Aneurysm From Esophageal Diverticulum**
Fuyuhiko Yasuda, MD, Takatsugu Shimono, MD, Hitoshi Tonouchi, MD, Hideto Shimpou, MD, and Isao Yada, MD
- 639 Video-Assisted Thoracic Surgery Lobectomy for Pulmonary Sequestration**
Innes Y. P. Wan, FRCS, Tak Wai Lee, FRCS, Alan D. L. Sihoe, MB, BChir, Calvin S. H. Ng, MBBS(Hons), and Anthony P. C. Yim, MD
- 640 Combined Correction of an Adult Scimitar Syndrome and Coronary Artery Bypass Grafting**
Thorsten Walles, MD, Artur Lichtenberg, MD, Kazuko Shiraga, MD, and Uwe Klima, MD, PhD
- 642 Aortic Wall Alterations After Use of Gelatin-Resorcinol-Formalin Glue**
Matthias Kirsch, MD, Maryvonne Ginat, MS, Laure Lecerf, PhD, Rémi Houël, MD, and Daniel Loisance, MD
- 644 Composite Graft Replacement After Aortic Valvuloplasty in Takayasu Arteritis**
Hideyuki Harada, MD, Yukiko Honma, MD, Yoshikazu Hachiro, MD, Tohru Mawatari, MD, and Tomio Abe, MD
- 647 Aortic Root Replacement With Anomalous Origin of the Coronary Arteries**
Stacy B. O'Blenes, MD, MS, and Christopher M. Feindel, MD
- 649 Recurrence of Left Ventricular Outflow Tract Obstruction After Left Anterior Descending Coronary Artery Revascularization in a Patient With Hypertrophic Obstructive Cardiomyopathy**
Simon J. Abou Jaoudé, MD, Paul E. Achouh, MD, Ramzi A. Ashoush, MD, and Victor A. Jebara, MD
- 650 Reoperative Transmyocardial Laser Revascularization for Late Recurrent Angina**
Richard Lee, MD, Keith C. Fischer, MD, and Marc R. Moon, MD
- 652 Pseudoxanthoma Elasticum: Is the Left Internal Mammary Artery a Suitable Conduit for Coronary Artery Bypass Grafting?**
Jim Iliopoulos, MBBS, Con Manganas, FRACS, Nigel Jepson, MD, and David C. Newman, FRACS
- 653 Surgical Treatment of Coronary Sinus Orifice Atresia With Hypoplastic Left Heart Syndrome After Total Cavo-Pulmonary Connection**
Noritaka Ohta, MD, Kisaburo Sakamoto, MD, Miwako Kado, MD, Masahiko Nishioka, MD, and Michio Yokota, MD
- 655 Repair of Transposition of the Great Arteries With Total Anomalous Pulmonary Venous Return**
Gary W. Raff, MD, Dale M. Geiss, MD, Jitendra J. Shah, MD, Linda M. Bond, MA, and John A. Carroll, MD
- 657 Isolated Left Ventricular Ischemia After the Norwood Procedure**
Joseph J. DeRose, Jr, MD, Rozelle Corda, NP, M. Renate Dische, MD, PhD, Jennifer Eleazar, MD, and Ralph S. Mosca, MD
- 659 Aortopulmonary Window Due to Balloon Angioplasty After Arterial Switch Operation**
Hiroo Takayama, MD, Akihiko Sekiguchi, MD, Masahide Chikada, MD, Mio Noma, MD, and Ryoichi Ishida, MD
- 661 Modification of the Radial Procedure in a Patient With Partial Atrioventricular Septal Defect**
Takashi Nitta, MD, Hitoshi Yamauchi, MD, Naoko Ohkubo, MD, Yosuke Ishii, MD, Shigeo Tanaka, MD, Meiso Hayashi, MD, Yoshinori Kobayashi, MD, and Teruo Takano, MD
- 663 Pathologic Findings in Atrial Musculature Seven Years After the Intraatrial Tunnel Fontan**
Yasushi Yoshikawa, MD, Hatsue Ishibashi-Ueda, MD, Hideki Uemura, MD, Youichi Kawahira, MD, and Toshikatsu Yagihara, MD
-
- IMAGES IN CARDIOTHORACIC SURGERY**
- 665 Malignant Mesothelioma With Osseous Differentiation**
Hon Chi Suen, MBBS, Barbara Sudholt, MD, Wallace M. Anderson, MD, Mazhar H. Lakho, MD, and Bill B. Daily, MD, PhD

- 666 Traumatic Aortic Arch Injury**
Kirit Patel, MD, Keith Allen, MD, Clay Hinrichs, MD, Ayad Jihayel, MD, and James S. Donahoo, MD

HOW TO DO IT

- 667 Enlargement of the Aortic Annulus Using a Double-Patch Technique: A Safe and Effective Method**
J. Ernesto Molina, MD, PhD
- 671 Open Inferior Vena Caval Anastomosis During Bicaval Heart Transplantation**
Lishan Aklog, MD, Jerome Sepic, MD, Farzan Filsoufi, MD, John G. Byrne, MD, and David H. Adams, MD
- 673 An Alternative Surgical Approach to Facilitate Minimally Invasive Mitral Valve Surgery**
Dimitrios C. Angouras, MD, and Robert E. Michler, MD

REVIEWS

- 675 Neuroendocrine Carcinoma (Carcinoid) of the Thymus Associated With Cushing's Syndrome**
Marc de Perrot, MD, Anastase Spiliopoulos, MD, Stefan Fischer, MD, Martin Totsch, MD, and Shaf Keshavjee, MD
- 682 Endothelial Damage During Myocardial Preservation and Storage**
Alessandro Parolari, MD, PhD, Patrizia Rubini, MD, PhD, Aldo Cannata, MD, Luigi Bonati, MD, Francesco Alamanni, MD, Elena Tremoli, PhD, and Paolo Biglioli, MD

KEY REFERENCES

- 691 Diaphragm Pacing**
John A. Elefteriades, MD, and Jacquelyn A. Quin, MD

CORRESPONDENCE

- 693 Talc: Isn't It Safe?**
Morris J. Peacock, FRACS
Reply
C. Peter Clarke, MB, FACS, FRACS
- 693 Left Gastric to Coronary Artery Bypass**
John B. Flege, Jr, MD

- 694 On the Originality of the Technique Described by Sueda and Coworkers**
Noedir A. G. Stolf, MD, PhD

- 694 Dilated Aortic Root and Stentless Valve Implantation**
Robert P. Siebenmann, MD
Reply
Massimo Massetti, MD, Gerard Babatasi, MD, PhD, and Andre Khayat, MD
- 695 Valved Stentless Composite Graft**
Paul P. Urbanski, MD
Reply
Ruggero De Paulis, MD, Paolo Nardi, MD, and Luigi Chiariello, MD

- 696 Cardiac Valve Replacement in Patients on Dialysis**
Ryuji Higashita, MD, Yasuo Takeuchi, MD, and Mamiko Ohara, MD
- 697 The Use of the Shelhigh Porcine Valve Conduit in Infants**
Jeffrey M. Pearl, MD, and Peter B. Manning, MD
Reply
Stefano M. Marianeschi, MD
- 699 Double-Inlet Left Ventricle: Successfully Staged Ventricular Septation With 12.5 Years Follow-up**
Jaap Ottenkamp, MD, PhD, and Mark G. Hazekamp, MD, PhD

- 699 Ave Sina was an Islamic Physician**
Feridoun Sabzi, MD
- 699 Cardiac Hydatid Cysts**
Julian E. Losanoff, MD, Bruce W. Richman, MA, and James W. Jones, MD, PhD

- Reply*
Mehmet Kaplan, MD, Mahmut Murat Demirtas, MD, and Ilgaz Dogusoy, MD

ANNOUNCEMENTS

- A-34-36 Events of Interest**
- 393 The Southern Thoracic Surgical Association: Forty-ninth Annual Meeting**
- 426 Notice From the American Board of Thoracic Surgery Regarding Trainees and Candidates for Certification Who Are Called to Military Service Related to the War on Terrorism**

454	Internet Discussion Forum	A-39	Southern Thoracic Surgical Association Rules for Submission of Abstracts
621	Notice From the American Board of Thoracic Surgery		
670	Requirements for Recertification/ Maintenance of Certification in 2002	A-40-1	Classified Advertisements
A-37-8	Southern Thoracic Surgical Association Membership Application and Requirements	A-46	Index to Advertisers

Number 3 March 2002

EDITORIALS

- 701 **Acute Type A Aortic Dissection: Can We Dramatically Reduce the Surgical Mortality?**
Jean Bachet, MD
- 704 **Gene Therapy for Thoracic Disease: Practice, Promise, and Pragmatism**
W. Roy Smythe, MD

**ORIGINAL ARTICLES:
CARDIOVASCULAR**

- 707 **Acute Type A Dissection:
Conservative Methods
Provide Consistently Low Mortality**
Stephen Westaby, PhD, FRCS, Satoshi Saito, MD, PhD, and Takahiro Katsumata, MD, PhD
- Invited Commentary*
Marc A. A. M. Schepens, MD, PhD
- 714 **Factors Influencing Intensive Care Unit Length of Stay After Surgery for Acute Aortic Dissection Type A**
Daniel Hoefer, MD, Elfriede Ruttman, MD, Markus Riha, MD, Wolfgang Schobersberger, MD, Andreas Mayr, MD, Guenther Laufer, MD, and Johannes Bonatti, MD
- Invited Commentary*
Marc A. A. M. Schepens, MD, PhD

- 720 **Reduction Aortoplasty for Dilatation of the Ascending Aorta in Patients With Bicuspid Aortic Valve**
Matthias Bauer, MD, Miralem Pasic, MD, PhD, Raymond Schaffarzyk, MD, Henryk Siniawski, MD, Friedrich Knollmann, MD, Rudolf Meyer, MD, PhD, and Roland Hetzer, MD, PhD
- Invited Commentary*
Neal D. Kon, MD

- 725 **Complete Aortic Root Replacement in Patients With Small Aortic Annulus**
Paul P. Urbanski, MD
- Invited Commentary*
Lars G. Svensson, MD, PhD

- 730 **Renal Perfusion During Thoracoabdominal Aortic Operations: Cold Crystalloid is Superior to Normothermic Blood**
Cüneyt Köksal, MD, Scott A. LeMaire, MD, Patrick E. Curling, MD, Steven A. Raskin, CCP, Zachary C. Schmittling, MD, Lori D. Conklin, MD, and Joseph S. Coselli, MD

- 739 **Effectiveness of Combined Blood Conservation Measures in Thoracic Aortic Operations With Deep Hypothermic Circulatory Arrest**
Ko Shibata, MD, Shinichi Takamoto, MD, Yutaka Kotsuka, MD, and Hajime Sato, MD
- Invited Commentary*
John A. Elefteriades, MD

- 745 **Right Ventricular Dysfunction and Organ Failure in Left Ventricular Assist Device Recipients: A Continuing Problem**
Minoo N. Kavarana, MD, Melissa S. Pessin-Minsley, MD, Jacqueline Urtecho, BA, Katharine A. Catanese, RN, Margaret Flannery, RN, Mehmet C. Oz, MD, and Yoshifumi Naka, MD

- Invited Commentary*
Patrick M. McCarthy, MD

- 751 **Reductive Annuloplasty of Double Orifices in Patients With Primary Dilated Cardiomyopathy**
Ninoslav Radovanović, MD, Bogoljub Mihajlović, MD, Jan Šeleštiánský, MD, Vladimir Torbica, MD, Milan Mijatov, MD, Miroslava Popov, MD, and Živojin S. Jonjev, MD

- 756 **Improvement of Tricuspid Regurgitation After Pulmonary Thromboendarterectomy**
Thomas Menzel, MD, Thorsten Kramm, MD, Stephan Wagner, MD, Susanne Mohr-Kahaly, MD, Eckhard Mayer, MD, and Juergen Meyer, MD

- Invited Commentary*
Patricia A. Thistlethwaite, MD, PhD

- 762 Assessment of Cardiac Performance Using Tei Indices in Patients Undergoing Pulmonary Thromboendarterectomy**
Thomas Menzel, MD, Thorsten Kramm, MD, Susanne Mohr-Kahaly, MD, Eckhard Mayer, MD, Hellmut Oelert, MD, and Juergen Meyer, MD
- 767 Are Stentless Valves Hemodynamically Superior to Stented Valves? A Prospective Randomized Trial**
Gideon Cohen, MD, George T. Christakis, MD, Campbell D. Joyner, MD, Christopher D. Morgan, MD, Miguel Tamariz, MD, Naoji Hanayama, MD, Hari Mallidi, MD, J. P. Szalai, PhD, Marko Katic, BA, Vivek Rao, MD, Stephen E. Fremes, MD, and Bernard S. Goldman, MD
- Invited Commentary*
Dieter Horstkotte, MD
- 779 Aortic Valve Surgery After Previous Coronary Artery Bypass Grafting With Functioning Internal Mammary Artery Grafts**
John G. Byrne, MD, Alexandros N. Karavas, MD, Farzan Filsoufi, MD, Tomislav Mihaljevic, MD, Lishan Aklog, MD, David H. Adams, MD, Lawrence H. Cohn, MD, and Sary F. Aranki, MD
- Invited Commentary*
A. Marc Gillinov, MD, and Bruce W. Lytle, MD
- 785 Paravalvular Leak and Other Events in Silzone-Coated Mechanical Heart Valves: A Report From AVERT**
Hartzell V. Schaff, MD, Thierry P. Carrel, MD, W. R. Eric Jamieson, MD, Kent W. Jones, MD, Juán José Rufilanchas, MD, Denton A. Cooley, MD, Roland Hetzer, MD, Frank Stumpe, MD, Daniel Duveau, MD, Patterson Moseley, MD, Wim Jan van Boven, MD, Gary L. Grunkemeier, PhD, Elizabeth D. Kennard, PhD, and Richard Holubkov, PhD
- 793 Safety and Efficacy of One Stage Off-Pump Coronary Artery Operation and Carotid Endarterectomy**
Zile Singh Meharwal, MCh, Anil Mishra, MCh, and Naresh Trehan, MD
- Invited Commentary*
David A. Fullerton, MD
- 798 Conversion to Off-Pump Coronary Bypass Without Increased Morbidity or Change in Practice**
Ani C. Anyanwu, FRCS, Sharif Al-Ruzzeh, FRCS, Shane J. George, FRCA, Rikin Patel, MRCS, Sir Magdi H. Yacoub, FRSS, and Mohamed Amrani, MD, PhD
- 803 Morbidity After Procurement of Radial Arteries in Diabetic Patients and the Elderly Undergoing Coronary Revascularization**
V. Seenu Reddy, MD, Samir M. Parikh, MD, Davis C. Drinkwater, Jr, MD, Amy Lo, MD, Thomas P. Rauth, BS, Rosemary M. Moleski, and Paul A. Chang, BS
- 809 Epicardial Ultrasound in Off-Pump Coronary Artery Bypass Grafting: Potential Aid in Intraoperative Coronary Diagnostics**
Patrick Klein, MSc, Rudy Meijer, Jan H. R. Eikelaar, MD, Paul F. Gründeman, MD, PhD, and Cornelius Borst, MD, PhD
- 813 The Importance of Intraoperative Angiographic Findings for Predicting Long-Term Patency in Coronary Artery Bypass Operations**
Per K. Hol, MD, Erik Fosse, MD, PhD, Runar Lundblad, MD, PhD, Sigurd Nitter-Hauge, MD, PhD, Paulina Due-Tønnessen, MD, Karleif Vatne, MD, and Hans-Jørgen Smith, MD, PhD
- Invited Commentary*
Anthony P. C. Yim, MD, and Song Wan, MD, PhD
- 819 Vascular Endothelial Growth Factor-Mediated, Endothelium-Dependent Relaxation in Human Internal Mammary Artery**
Ming-Hui Liu, MD, Hongkui Jin, MD, H. Storm Floten, MD, Zhev Ren, MD, Anthony P. C. Yim, MD, and Guo-Wei He, MD, PhD
- Invited Commentary*
Daniel Burkhoff, MD
- 825 Robotically Assisted Versus Conventional Freehand Technique During Beating Heart Anastomoses of Left Internal Thoracic Artery to Left Anterior Descending Artery**
Luis H. Diodato, MD, John E. Scarborough, MD, Patrick W. Domkowski, MD, PhD, Monica L. Smith, BS, Shankha S. Biswas, MD, Ted Schwartz, MD, and Kevin P. Landolfo, MD
- 830 An Experimental Model of Saphenous Vein-to-Coronary Artery Anastomosis With the St. Jude Medical Stainless Steel Connector**
Hartzell V. Schaff, MD, Kenton J. Zehr, MD, Luis F. Bonilla, MD, Lucas H. Brennecke, DVM, Todd Berg, BS, Rick Cornelius, BS, Paul Hindrichs, BS, and William Swanson, BS

- 837 Cardioplegic Arrest With L-Arginine Improves Myocardial Protection: Results of a Prospective Randomized Clinical Trial**
Michel Carrier, MD, Michel Pellerin, MD, Louis P. Perrault, MD, PhD, Denis Bouchard, MD, Pierre Pagé, MD, Norman Searle, MD, and Joel Lavoie, PhD
Invited Commentary
Thomas J. Vander Salm, MD
- 843 Is There a Place for Preconditioning During Cardiac Operations in Humans?**
Bruno Pouzet, MD, Jean-Baptiste Lecharny, MD, Monique Dehoux, MD, Sandrine Paquin, MD, Masafumi Kitakaze, MD, PhD, Jean Mantz, MD, PhD, and Philippe Menasché, MD, PhD
- 849 Functional Recovery of the Native Heart After Cardiomyoplasty in Sheep With Heart Failure: Passive and Dynamic Effects of Volume Loading**
Kazuaki Shirota, MD, Yifei Huang, MD, Osamu Kawaguchi, MD, Takeshi Yuasa, MD, Peter W. Brady, FRACS, Yuichi Ueda, MD, and Stephen N. Hunyor, MD
Invited Commentary
John J. Lamberti, MD
- 855 Midterm Results of Surgical Treatment of Systemic Ventricular Outflow Obstruction in Fontan Patients**
Takeshi Hiramatsu, MD, Yasuharu Imai, MD, Hiromi Kurosawa, MD, Yoshinori Takanashi, MD, Mitsuru Aoki, MD, Toshiharu Shin'oka, MD, and Takahiko Sakamoto, MD
Invited Commentary
John J. Lamberti, MD
- 862 Effects of Dilutional and Modified Ultrafiltration in Plasma Endothelin-1 and Pulmonary Vascular Resistance After the Fontan Procedure**
Takeshi Hiramatsu, MD, Yasuharu Imai, MD, Hiromi Kurosawa, MD, Yoshinori Takanashi, MD, Mitsuru Aoki, MD, Toshiharu Shin'oka, MD, and Makoto Nakazawa, MD
- 866 Extending the Usable Size Range of Homografts in the Pulmonary Circulation: Outcome of Bicuspid Homografts**
Bhagawan Koirala, MD, Sandra L. Merklinger, MN, Glen S. Van Arsdell, MD, Brian W. McCrindle, MD, Michael A. Borger, MD, Christopher A. Caldarone, MD, John G. Coles, MD, and William G. Williams, MD
- 871 PTFE Monocusp Valve Reconstruction of the Right Ventricular Outflow Tract**
Mark W. Turrentine, MD, Ryan P. McCarthy, BS, Palaniswamy Vijay, MPH, PhD, Kevin W. McConnell, BS, and John W. Brown, MD
- 881 Bronchial Compression by Posteriorly Displaced Ascending Aorta in Patients With Congenital Heart Disease**
Yang Min Kim, MD, Shi-Joon Yoo, MD, Woong Han Kim, MD, Tae Hoon Kim, MD, Joon Hee Joh, MD, and Soo Jin Kim, MD
Invited Commentary
Jeffrey E. Sell, MD
- 887 Current Results With Intraaortic Balloon Pumping in Infants and Children**
Kerrie A. Pinkney, MD, MPH, L. LuAnn Minich, MD, Lloyd Y. Tani, MD, Gregory B. Di Russo, MD, L. George Veasy, MD, Edwin C. McGough, MD, and John A. Hawkins, MD
Invited Commentary
Ralph E. Delius, MD
-
- ORIGINAL ARTICLES:**
GENERAL THORACIC
- 892 Thoracic Duct Tributaries From Intrathoracic Organs**
Marc Riquet, MD, PhD, Françoise Le Pimpec Barthes, MD, Redha Souilamas, MD, and Geneviève Hidden, MD
Invited Commentary
Danel L. Miller, MD
- 900 A Prospective Trial of Systematic Nodal Dissection for Lung Cancer by Video-Assisted Thoracic Surgery: Can It Be Perfect?**
Motoyasu Sagawa, MD, Masami Sato, MD, Akira Sakurada, MD, Yuji Matsumura, MD, Chiaki Endo, MD, Masashi Handa, MD, and Takashi Kondo, MD
Invited Commentary
Donald E. Low, MD
- 905 Ganciclovir Prodrug Therapy is Effective in a Murine Xenotransplant Model of Human Lung Cancer**
Roland Kurдов, MD, Arnd S. Boehle, MD, Sieglinde Haye, Lars Boenicke, Bodo Schniewind, MD, Peter Dohrmann, PhD, and Holger Kalthoff, PhD
- 911 Benign Broncho-Esophageal Fistula in the Adult**
Abeel A. Mangi, MD, Henning A. Gaißert, MD, Cameron D. Wright, MD, James S. Allan, MD, John C. Wain, MD, Hermes C. Grillo, MD, and Douglas J. Mathisen, MD

- 916 Clinical Impact of Endoscopic Ultrasound-Guided Fine Needle Aspiration of Celiac Axis Lymph Nodes (M1a Disease) in Esophageal Cancer**
Kiran S. Parmar, MD, Joseph B. Zwischenberger, MD, Angela L. Reeves, CGRN, and Irving Waxman, MD
- Invited Commentary*
James D. Luketich, MD
- 922 Pulmonary Complications after Esophagectomy**
Christopher E. Avendano, MD, Patrick A. Flume, MD, Gerard A. Silvestri, MD, Lydia B. King, MPH, and Carolyn E. Reed, MD
- 927 Clinical Significance of Telomerase Activity in Peripheral Blood of Patients With Esophageal Squamous Cell Carcinoma**
Kazuo Koyanagi, MD, Soji Ozawa, MD, Nobutoshi Ando, MD, Yuko Kitagawa, MD, Masakazu Ueda, MD, and Masaki Kitajima, MD
- 933 Expression Status of E-Cadherin and α -, β -, and γ -Catenins in Thymoma**
Ichiro Yoshino, MD, Shinichiro Kase, MD, Tokujiro Yano, MD, Kenji Sugio, MD, and Keizo Sugimachi, MD, FACS
- 938 Experience With Ultraflex Expandable Metallic Stents in the Management of Endobronchial Pathology**
Brendan P. Madden, MD, MSc, Subir Datta, MB, FRCS, and Nick Charokopos, MD
- Invited Commentary*
Keith S. Naunheim, MD
- 945 Endobronchial Neodymium:Yttrium-Aluminum Garnet Laser for Noninvasive Closure of Small Proximal Bronchopleural Fistula After Lung Resection**
Masanobu Kiriya, MD, Yoshitaka Fujii, MD, Yosuke Yamakawa, MD, Ichiro Fukai, MD, Motoki Yano, MD, Masahiro Kaji, MD, and Hidefumi Sasaki, MD
- Invited Commentary*
Douglas E. Wood, MD
-
- CASE REPORTS**
- 950 Preoperative Fenestration for Type A Acute Aortic Dissection With Mesenteric Malperfusion**
Olivier Fabre, MD, Andre Vincentelli, MD, Serge Willoteaux, MD, Jean Paul Beregi, MD, PhD, and Alain Prat, MD
- 951 Traumatic Aortic Transection: Evidence for the Osseous Pinch Mechanism**
Hossein Javadpour, FRCSI, John J. O'Toole, FRCS, J. Niall McEniff, FRCR, David A. Luke, FRCSI, and Vincent K. Young, FRCS (CTh)
- 953 Successful Repair of Intraoperative Aortic Dissection Detected by Transesophageal Echocardiography**
David Varghese, MB, ChB, Bernhard J. C. J. Riedel, FCA, S. Nicholas Fletcher, FRCA, Mohammed I. Al-Momatten, FRCS, and Asghar Khaghani, FRCS
- 956 Successful Stent-Grafting for Perforation of the Thoracic Aorta by an Intraaortic Balloon Pump**
Victor Bautista-Hernández, MD, Javier Moya, MD, Jorge Martinell, MD, María Luz Polo, MD, and Julián Fraile, MD, PhD
- 958 Intramural Hematoma of the Thoracic Aorta in a Woman With Neurofibromatosis**
Omar A. Ali, MD, Nsidinanya Okike, MD, Robert G. Hogan, MD, and Richard C. Becker, MD
- 960 Biventricular Pacing for Weaning From Extracorporeal Circulation in Heart Failure**
Peter Kleine, MD, Mirko Doss, MD, Tayfun Aybek, MD, Gerhard Wimmer-Greinecker, MD, and Anton Moritz, MD
- 962 Ex-Vivo Mitral Valve Repair Prior to Orthotopic Cardiac Transplantation**
Robert E. Michler, MD, and Diego R. Camacho, MD
- 963 Correction of Traumatic Tricuspid Regurgitation Using the Double Orifice Technique**
Sina L. Moainie, MD, T. Sloane Guy, MD, Ted Plappert, CVT, Joseph H. Gorman III, MD, and Robert C. Gorman, MD
- 965 Replacement of a Thrombosed Valve After the Bentall Procedure**
Hideyuki Harada, MD, Toshiro Ito, MD, Tohru Mawatari, MD, and Tomio Abe, MD
- 967 Tetralogy of Fallot With Aortic Valvular Stenosis: Surgical Correction in One Case**
Olivier Y. Ghez, MD, Philippe M. Chetaille, MD, Bruce J. Campbell, MD, Richard Van Praagh, MD, and Dominique Metras, MD
- 969 Right Coronary Artery and Interatrial Septal Aneurysms With Fistulous Connection to the Right Atrium**
Antonino G. M. Marullo, MD, PhD, and Joseph F. Sabik, MD
- 971 Ruptured Right Coronary Artery Aneurysm Presenting as a Myocardial Mass**
Luis D. Berrizbeitia, MD, and Louis E. Samuels, MD
- 973 Three-Decade Follow-up in Pulmonary Artery Ectasia: Risk Assessment Strategy**
Christof Rose, MD, and Armin Wessel, MD

- 975 Successful Arterial Switch Operation for Post-Mustard Pulmonary Venous Obstruction and Secondary Pulmonary Hypertension**
Masahiro Inoue, MD, Osamu Oba, MD, Sadahiko Arai, MD, Takeshi Shichijo, MD, and Taiichi Takasaki, MD
- 977 Treatment of Persistent Chylothorax After Norwood Procedure With Somatostatin**
Timothy W. Pettitt, MD, Joseph Caspi, MD, and Anne Borne, RN
- 979 Left Atrial Cardiac Hemangioma Associated With Shortness of Breath and Palpitations**
Lucy J. Lo, MD, Ramsay C. Nucho, MD, John W. Allen, MD, Richard L. Rohde, MD, and Francis Y. K. Lau, MD
- 981 Sclerosing Hemangioma With Metastases to Multiple Nodal Stations**
Motoki Yano, MD, Yosuke Yamakawa, MD, Masanobu Kiriyama, MD, Masaki Hara, MD, and Takayuki Murase, MD
- 983 Preoperative Embolization of a Massive Solitary Fibrous Tumor of the Pleura**
Beatrix Weiss, FRACS, and David A. Horton, FRACS
- 985 Right Aortic Arch With Left Lung Cancer: Focusing on Left Recurrent Laryngeal Nerve**
Dai Shida, MD, Yuji Asato, MD, Ryuta Amemiya, MD, Akifumi Suzuki, MD, and Fuyo Yoshimi, MD
- 987 Behavior of Free Jejunal Flaps After Early Disruption of Blood Supply**
Hung-Chi Chen, FACS, Bien-Keem Tan, FRCS(Ed), Ming-Huei Cheng, MD, Chau-Hsiung Chang, FACS, and Yueh-bih Tang, MD, PhD

IMAGES IN CARDIOTHORACIC SURGERY

- 990 Left Atrial Myxoma With Tumor Vascularity Arising From the Left and Right Coronary Arteries**
Matthias Bauer, MD, and Roland Hetzer, MD, PhD
- 991 Single Coronary Artery–Right Ventricular Fistula**
Smruti Ranjan Mohanty, MCh, Kona Samba Murthy, MCh, and Kotturathu Mammen Cherian, FRACS

HOW TO DO IT

- 992 Modified Extracardiac Fontan in a Patient With Separate Hepatic Venous Drainage**
Jeong Ryul Lee, MD, Cheul Lee, MD, Ji Min Chang, MD, Eun Jung Bae, MD, and Chung Il Noh, MD
- 994 Alternate Technique for Implantation of Left Ventricular Assist System: Left Thoracotomy for Reoperative Cases**
Shawn L. Tittle, MD, Divakar Mandapati, MD, Gary S. Kopf, MD, and John A. Elefteriades, MD

- 997 Left Ventricular Assist Device Implantation via Left Thoracotomy: Alternative to Repeat Sternotomy**
Richard N. Pierson III, MD, Renee Howser, MSN, Terri Donaldson, MN, Walter H. Merrill, MD, Rebecca J. Dignan, MD, Davis C. Drinkwater, Jr, MD, Karla G. Christian, MD, Javed Butler, MD, Don Chomsky, MD, John R. Wilson, MD, Rick Clark, BS, and Stacy F. Davis, MD

- 1000 Avoiding Aortic Clamping During Coronary Artery Bypass Using an Automated Anastomotic Device**
Munemoto Endo, MD, Osama Benhameid, MD, Jean F. Morin, MD, and Hani Shennib, MD

REVIEWS

- 1002 The Endothelium in Clinical Cardiac Transplantation**
Serban C. Stoica, AFRCS, Martin Goddard, MRCPATH, and Stephen R. Large, FRCS

- 1009 Multimodality Therapy for Resectable Cancer of the Thoracic Esophagus**
John W. C. Entwistle III, MD, PhD, and Melvyn Goldberg, MD

SPECIAL REPORT: CONGENITAL HEART SURGERY DATABASE UPDATE

- 1016 Congenital Heart Surgery Nomenclature and Database Project: Update and Proposed Data Harvest**
J. William Gaynor, MD, Jeffrey P. Jacobs, MD, Marshall L. Jacobs, MD, Martin J. Elliott, MD, Francois Lacour-Gayet, MD, Christo I. Tchervenkov, MD, Bohdan Maruszewski, MD, PhD, and Constantine Mavroudis, MD, for the International Congenital Heart Surgery Nomenclature and Database Project and the Congenital Heart Surgery Committees of The Society of Thoracic Surgeons and the European Association for Cardio-Thoracic Surgery

REPORT

- 1019 2001 Meeting Southern Thoracic Surgical Association**
Carolyn E. Reed, MD

CORRESPONDENCE

- 1020 Implementation of New Technology for CABG in Low-Risk Patients: Could It Be Too Soon?**
Louis P. Perrault, MD, PhD, Yves Hébert, MD, FRCSC, and Michel Carrier, MD, FRCSC

Reply
Selami Dogan, MD, and Gerhard Wimmer-Greinecker, MD, PhD

- 1020 Triangular Resection of Prolapsing Anterior Mitral Leaflet**
Shigeaki Aoyagi, MD, Shuji Fukunaga, MD, and Hiroshi Tomoeda, MD

Reply
Roland Fasol, MD

- 1022 Simple Pulmonary Veins Isolation for Atrial Fibrillation**
Renato A. K. Kalil, MD, PhD, and Gustavo G. Lima, MD

Reply
Taijiro Sueda, MD

- 1023 Spinal Cord Protection During Descending Aortic Aneurysm Repair**
Teruhisa Kazui, MD

Reply:
Anthony L. Estrera, MD, Charles C. Miller III, PhD, and Hazim J. Safi, MD

- 1024 The Wider Adoption of Minimally Invasive Valvular Heart Surgery**
Serban C. Stoica, AFRCSEd, Susan Charman, MSc, and Francis C. Wells, FRCS

Reply
Eugene A. Grossi, MD, and F. Gregory Baumann, PhD

- 1025 Inflammatory Response After BioGlue Application**
Armin W. Erasmi, MD, Hans H. Sievers, MD, and Charlotte Wohlschläger, MD

Reply
Charles W. Hewitt, PhD, Steven W. Marra, MD, Brian R. Kann, MD, Hoang S. Tran, MD, Matthew M. Puc, MD, Frank A. Chrzanowski, Jr, MD, Jean-Luc V. Tran, BA, Jonathan H. Cilley, Jr, MD, Vincent A. Simonetti, MD, Anthony J. DelRossi, MD, and Steven D. Lenz, DVM, PhD

- 1026 Preoperative IABP in High-Risk Patients Reduces Postoperative Lactate Release and Subsequent Mortality**
Jan T. Christenson, MD, FECTS, and Marc Cohen, MD

Reply
Andrew Davies, FRACP, Rinaldo Bellomo, MD, Jai Raman, FRACS, Geoffrey Gutteridge, FANZCA, and Brian Buxton, MD

- 1027 Problems in the Evaluation of Thymectomy for Myasthenia Gravis**
Alfred Jaretzki III, MD, Henry J. Kaminski, MD, L. H. Phillips II, MD, and Donald B. Sanders, MD

Reply
Jason M. Budde, MD, and Joseph I. Miller, Jr, MD

REVIEW OF RECENT BOOKS

- 932 Radiologic Diagnosis of Diseases of the Chest, by Nestor L. Müller, MD, PhD, Richard S. Fraser, MD, Neil C. Colman, MD, and P. D. Pare, MD**
Thomas W. Shields, MD

ANNOUNCEMENTS

- A-44-6** Events of Interest
729 Internet Discussion Forum
808 Southern Thoracic Surgical Association: Forty-ninth Annual Meeting
861 Notice From the American Board of Thoracic Surgery Regarding Trainees and Candidates for Certification Who Are Called to Military Service Related to the War on Terrorism
870 Notice From the American Board of Thoracic Surgery
899 The Thoracic Surgery Foundation for Research and Education
921 Requirements for Recertification/Maintenance of Certification in 2002
A-51 Southern Thoracic Surgical Association Rules for Submission of Abstracts
A-52-3 Southern Thoracic Surgical Association Membership Requirements and Application
A-54-5 Classified Advertisements
A-70 Index to Advertisers

Number 4 April 2002

EDITORIALS

- 1029 Aortic Valve Sparing Operations**
Tirone E. David, MD

- 1031 The Renegade Fact**
Joseph S. McLaughlin, MD

- 1032 A Different Kind of "Total Artificial Heart": The Interactive, Computer-Based Human Heart Model**
Michael K. Pasque, MD

ORIGINAL ARTICLES:
GENERAL THORACIC

- 1035 Results of Surgical Treatment of Adenocarcinoma of the Gastric Cardia**
Giovanni de Manzoni, MD, Corrado Pedrazzani, MD, Felice Pasini, MD, Alberto Di Leo, MD, Emilia Durante, MD, Gabriele Castaldini, MD, and Claudio Cordiano, MD

- Invited Commentary*
Hubert J. Stein, MD, and J. Rudiger Siewert, MD

- 1041 Ischemia-Reperfusion Injury After Lung Transplantation Increases Risk of Late Bronchiolitis Obliterans Syndrome**
Steven M. Fiser, MD, Curtis G. Tribble, MD, Stewart M. Long, MD, Aditya K. Kaza, MD, John A. Kern, MD, David R. Jones, MD, Mark K. Robbins, MD, and Irving L. Kron, MD

- 1049 Pulmonary Large Cell Carcinomas With Neuroendocrine Features Are High-Grade Neuroendocrine Tumors**
Akira Iyoda, MD, Kenzo Hiroshima, MD, Masayuki Baba, MD, Yukio Saitoh, MD, Hidemi Ohwada, MD, and Takehiko Fujisawa, MD

- 1055 Prospective Study of Extended Segmentectomy for Small Lung Tumors: The Final Report**
Koichi Yoshikawa, MD, Noriaki Tsubota, MD, Ken Kodama, MD, Hiroyoshi Ayabe, MD, Toshihiko Taki, MD, and Takashi Mori, MD, for the Study Group of Extended Segmentectomy for Small Lung Tumors

- Invited Commentary*
Joe B. Putnam, Jr., MD

- 1060 Clinical Significance of nm23 Expression in Resected Pathologic-Stage I, Non-Small Cell Lung Cancer**
Hiromichi Katakura, MD, Fumihiro Tanaka, MD, Hiroki Oyanagi, MD, Ryo Miyahara, MD, Kazuhiro Yanagihara, MD, Yosuke Otake, MD, and Hiromi Wada, MD

- 1065 Stage I Non-Small Cell Lung Cancer: A Pragmatic Approach to Prognosis After Complete Resection**
Pascal Thomas, MD, FECTS, Christophe Doddoli, MD, Xavier Thirion, MD, Olivier Ghez, MD, Marie-José Payan-Defais, MD, Roger Giudicelli, MD, and Pierre Fuentes, MD

- 1071 Results of Wedge Resection for Focal Bronchioloalveolar Carcinoma Showing Pure Ground-Glass Attenuation on Computed Tomography**
Shun-ichi Watanabe, MD, Toshio Watanabe, MD, Kazunori Arai, MD, Takahiko Kasai, MD, Joji Haratake, MD, and Hiroshi Urayama, MD

- Invited Commentary*
Richard F. Heitmiller, MD

- 1076 Primary Thymic Carcinoma**
Hung-Chang Liu, MD, Wen-Hu Hsu, MD, Yu-Jen Chen, MD, Yu-Jan Chan, MD, Yu-Chung Wu, MD, Bieng-Shium Huang, MD, and Min-Hsiung Huang, MD

- 1082 Long-Term Results After Pulmonary Resection of Renal Cell Carcinoma Metastases**
Stefan Piltz, MD, Georgios Meimarakis, MD, Matthias W. Wichmann, MD, Rudolf Hatz, MD, Friedrich Wilhelm Schildberg, MD, and Heinrich Fuerst, MD

- 1088 Conservative Management of Thoracobiliary Fistula**
Bhugwan Singh, FCS (SA), Jaynathan Moodley, FCS (SA), Mohamed H. Sheik-Gafoor, FCS (SA), Naseem Dhooma, MBChB (Natal), and Anunathan Reddi, FCS (SA)

- 1092 Transplant Immunosuppression Enhances Efficiency of Adenoviral-Mediated Gene Retransfection: Inhibition of Interferon- γ and Immunoglobulin G**
Michiharu Suga, MD, Rebecca Gladdy, MD, Zhou Xing, MD, PhD, Shaf H. Keshavjee, MD, and Mingyao Liu, MD

- Invited Commentary*
Steven R. DeMeester, MD

- 1098 Frequency of Transmission of Human Parvovirus B19 Infection by Fibrin Sealant Used During Thoracic Surgery**
Masafumi Kawamura, MD, PhD, Makoto Sawafuji, MD, Masazumi Watanabe, MD, PhD, Hirohisa Horinouchi, MD, PhD, and Koichi Kobayashi, MD, PhD

- 1101 The Effect of Adhesion Molecule Blockade on Pulmonary Reperfusion Injury**
Adrian J. Levine, FRCS, Karen Parkes, Stephen J. Rooney, FRCS, and Robert S. Bonser, FRCS

**J. MAXWELL CHAMBERLAIN
MEMORIAL PAPER**

- 1107 Morbidity and Mortality After Extent II Thoracoabdominal Aortic Aneurysm Repair**
Joseph S. Coselli, MD, Scott A. LeMaire, MD, Lori D. Conklin, MD, Cüneyt Köksoy, MD, and Zachary C. Schmittling, MD

**ORIGINAL ARTICLES:
CARDIOVASCULAR**

- 1117 Aortic Root Remodeling Operation: How Do We Tailor a Tube Graft?**
Kiyofumi Morishita, MD, Gen Murakami, MD, Tokuo Koshino, MD, Johji Fukada, MD, Yasuaki Fujisawa, MD, Tohru Mawatari, MD, and Tomio Abe, MD

- 1122 Dynamic Analysis of the Aortic Valve Using a Finite Element Model**
Ramakrishna Gnyaneshwar, BTech, Ramarathnam Krishna Kumar, PhD, and Komarakshi R. Balakrishnan, MBBS, MS

- 1130 Five-Year Experience in Aortic Root Replacement With the Flanged Composite Graft**
Kaan Kirali, MD, Denyan Mansuroğlu, MD, Suat Nail Ömeroğlu, MD, Vedat Erentuğ, MD, İlker Mataracı, MD, Gökhān İpek, MD, Esat Alcincı, MD, Ömer Işık, MD, and Cevat Yakut, MD

- 1138 Self-Expandable Aortic Stent-Grafts For Treatment of Descending Aortic Dissections**
J. Honório Palma, MD, Jose Augusto Marcondes de Souza, MD, Claudia Maria Rodrigues Alves, MD, Antonio Carlos Carvalho, MD, and Enio Buffolo, MD

Invited Commentary
Michael Grimm, MD

- 1143 Endovascular Treatment of Thoracic Disease: Patient Selection and a Proposal of a Risk Score**
Claudia Maria Rodrigues Alves, MD, PhD, José Honório Palma da Fonseca, MD, PhD, José Augusto Marcondes de Souza, MD, PhD, Antonio Carlos Camargo Carvalho, MD, PhD, and Enio Buffolo, MD, PhD

- 1149 Natural History of Traumatic Rupture of the Thoracic Aorta Managed Nonoperatively: A Longitudinal Analysis**
James H. Holmes IV, MD, Robert D. Bloch, MD, R. Alan Hall, MD, Yvonne M. Carter, MD, and Riyad C. Karmy-Jones, MD

- 1155 Cold Blood Spinal Cord Plegia For Prediction of Spinal Cord Ischemia During Thoracoabdominal Aneurysm Repair**
Taijiro Sueda, MD, Kenji Okada, MD, Kazumasa Orihashi, MD, Yuji Sugawara, MD, Kazuhiro Kouchi, MD, and Katsuhiko Imai, MD

- 1160 Validation of a Left Atrial Lesion Pattern For Intraoperative Ablation of Atrial Fibrillation**
David C. Kress, MD, David Krum, MS, Valeri Chekanov, MD, John Hare, BS, Nicole Michaud, MS, Masood Akhtar, MD, and Jasbir Sra, MD

- 1169 Simple Surgical Isolation of Pulmonary Veins for Treating Secondary Atrial Fibrillation in Mitral Valve Disease**
Renato A. K. Kalil, MD, PhD, Gustavo G. Lima, MD, MSc, Tiago L. L. Leiria, MD, Rogério Abrahão, MD, Leonardo M. Pires, MD, Paulo R. Prates, MD, and Ivo A. Nesralla, MD, PhD

- 1174 Cerebral Blood Flow and Cognitive Dysfunction After Coronary Surgery**
Hanne Abildstrom, MD, Peter Høgh, MD, PhD, Bjørn Sperling, MD, Jakob T. Møller, MD, DMSc, Stig Yndgaard, MD, and Lars S. Rasmussen, MD, PhD

Invited Commentary
R. Alan Hall, MD

- 1180 Endoscopic Internal Thoracic Artery Dissection Leads to Significant Reduction of Pain After Minimally Invasive Direct Coronary Artery Bypass Graft Surgery**
Jan Bucerius, MD, Sebastian Metz, MD, Thomas Walther, MD, PhD, Volkmar Falk, MD, PhD, Nicolas Doll, MD, Frank Noack, MD, David Holzhey, MD, Anno Diegeler, MD, PhD, and Friedrich W. Mohr, MD, PhD

Invited Commentary
Jarle Vaage, MD

- 1185 Endothelin Blockade Potentiates Endothelial Protective Effects of ACE Inhibitors in Saphenous Veins**
Lawrence Ko, BS, Andrew Maitland, MD, Paul W. M. Fedak, MD, Aaron S. Dumont, MD, Mitesh Badiwala, BS, Fina Lovren, PhD, Christopher R. Triggle, PhD, Todd J. Anderson, MD, Vivek Rao, MD, PhD, and Subodh Verma, MD, PhD

- 1189 Improved Patency in Vein Grafts Harvested With Surrounding Tissue: Results of a Randomized Study Using Three Harvesting Techniques**
Domingos S. R. Souza, MD, Michael R. Dashwood, PhD, Janice C. S. Tsui, MB, BChir, Derek Filbey, PhD, Lennart Bodin, PhD, Benny Johansson, MD, and Jan Borowiec, PhD
- 1196 Elimination of Cardiopulmonary Bypass Improves Early Survival for Multivessel Coronary Artery Bypass Patients**
Mitchell J. Magee, MD, Kathleen A. Jablonski, PhD, Sotiris C. Stamou, MD, PhD, Albert J. Pfister, MD, Todd M. Dewey, MD, Mercedes K. C. Dullum, MD, James R. Edgerton, MD, Syma L. Prince, RN, Tea E. Acuff, MD, Paul J. Corso, MD, and Michael J. Mack, MD
- 1204 Alveolar Recruitment Strategy Increases Arterial Oxygenation During One-Lung Ventilation**
Gerardo Tusman, MD, Stephan H. Böhm, MD, Fernando Melkun, MD, Daniel Staltari, MD, FACS, Carlos Quinzio, MD, Carlos Nador, MD, and Elsio Turchetto, MD
- 1210 Therapeutic Angiogenesis Induced by Local Autologous Bone Marrow Cell Implantation**
Kimikazu Hamano, MD, Tao-Sheng Li, MD, Toshiro Kobayashi, MD, Ken Hirata, MD, Masafumi Yano, MD, Michihiro Kohno, MD, and Masunori Matsuzaki, MD
- 1216 Disease-Specific Remodeling of Cardiac Mitochondria After a Left Ventricular Assist Device**
Paul M. Heerd, MD, PhD, Michael Schlame, MD, Roswitha Jehle, MD, Alessandro Barbone, MD, Daniel Burkhoff, MD, PhD, and Thomas J. J. Blanck, MD, PhD
- 1222 Comparison of the Nottingham Health Profile and the 36-Item Health Survey Questionnaires in Cardiac Surgery**
Pierre Emmanuel Falcoz, MD, Sidney Chocron, MD, PhD, Mariette Mercier, MD, PhD, Marc Puyraveau, and Joseph Philippe Etievent, MD
Invited Commentary
David B. Ross, MD
- 1229 Role of Apoptosis in Myocardial Stunning After Open Heart Surgery**
Joachim P. Schmitt, MD, Josef Schröder, MD, Heribert Schunkert, MD, Dietrich E. Birnbaum, MD, and Hermann Aebert, MD
Invited Commentary
Robert C. Gorman, MD, and Joseph H. Gorman III, MD
- 1236 Protective Effects of Protein Kinase C During Myocardial Ischemia Require Activation of Phosphatidyl-Inositol Specific Phospholipase C**
Mamoru Munakata, MD, Christof Stamm, MD, Ingeborg Friehs, MD, David Zurakowski, PhD, Douglas B. Cowan, PhD, Hung Cao-Danh, PhD, Francis X. McGowan, Jr, MD, and Pedro J. del Nido, MD
Invited Commentary
Hikaru Matsuda, MD, PhD
- 1246 Glucose-Insulin-Potassium Infusion for Myocardial Protection During Off-Pump Coronary Artery Surgery**
William A. Lell, MD, Vance G. Nielsen, MD, David C. McGiffin, MD, Frank E. Schmidt, Jr, MD, James K. Kirklin, MD, and Alfred W. Stanley, Jr, MD
Invited Commentary
Harold L. Lazar, MD
- 1253 Aprikalim Reduces the $\text{Na}^+ \text{-Ca}^{2+}$ Exchange Outward Current Enhanced by Hyperkalemia in Rat Ventricular Myocytes**
Hong-Yu Li, PhD, Song Wu, PhD, Guo-Wei He, MD, PhD, and Tak-Ming Wong, PhD
Invited Commentary
Brian F. Buxton, FRACS
- 1261 Effects of In Vivo Myocardial Ischemia and Reperfusion on Interstitial Nitric Oxide Metabolites**
Randy M. Stevens, MD, M. Salik Jahania, MD, Jennifer E. Stivers, BS, Robert M. Mentzer, Jr, MD, and Robert D. Lasley, PhD
- 1267 Aortic Arch Advancement: The Optimal One-Stage Approach for Surgical Management of Neonatal Coarctation With Arch Hypoplasia**
Mohamed-Adel Elgamal, MD, E. Dean McKenzie, MD, and Charles D. Fraser, Jr, MD
- 1274 Individualized Total Cavopulmonary Connection Technique for Patients With Asplenia Syndrome**
Ryo Aeba, MD, Toshiyuki Katogi, MD, Kenichi Hashizume, MD, Yoshimi Iino, MD, Shiaki Kawada, MD, and Yuji Yuasa, MD
Invited Commentary
Christopher A. Caldarone, MD
- 1282 Effects of Autologous Platelet Concentrate Reinfusion After Open Heart Surgery in Patients With Congenital Heart Disease**
Takeshi Hiramatsu, MD, Tohru Okamura, MD, Yasuharu Imai, MD, Hiromi Kurosawa, MD, Mitsuru Aoki, MD, Toshiharu Shin'oka, MD, and Yoshinori Takanashi, MD

CASE REPORTS

1286 Tracheal Polyp

T. Clark Gamblin, MD, Lisa A. Farmer, MD, R. Jonathan Dean, MD, R. Andrew Bradley, MD, and Martin L. Dalton, MD

1288 Symptomatic Bochdalek Hernia in an Octogenarian

Paul Perch, MD, Ward V. Houck, MD, and Abe DeAnda, Jr, MD

1290 Videothoracoscopic Splanchnicectomy for Intractable Pain From Adrenal Metastasis

Loïc Lang-Lazdunski, MD, PhD, Françoise Le Pimpec-Barthes, MD, and Marc Riquet, MD, PhD

1292 Flow Cytometric Analysis of a Localized Malignant Mesothelioma

José Javier Gómez-Román, MD, PhD, Roberto Mons-Lera, MD, PhD, Isabel Seco Olmedo, MD, and José Fernando Val-Bernal, MD, PhD

1294 Spontaneous Esophageal Perforation Presenting as Meningitis

Carlo C. Jurani, MD, Gerald L. Early, MD, and Shauna R. Roberts, MD

1296 Proliferative Myositis: A Rare Pseudosarcoma of the Chest Wall

Michael S. Kent, MD, Douglas B. Flieder, MD, Jeffrey L. Port, MD, and Nasser K. Altorki, MD

1298 Histological Confirmation of Healing of Gastrobronchial Fistula Using A Muscle Flap

Manabu Okuyama, MD, Reijiro Saito, MD, Satoru Motoyama, MD, Michihiko Kitamura, MD, and Jun-ichi Ogawa, MD

1299 Successful Treatment of Pulmonary Hypertension With Inhaled Nitric Oxide After Pulmonary Embolectomy

Georg Trummer, MD, Michael Berchtold-Herz, MD, Jürgen Martin, MD, and Friedhelm Beyersdorf, MD

1302 Mitral Annular Aneurysm Resulting From Subaortic Muscle Resection

Manabu Watanabe, MD, Yorikazu Harada, MD, Takamasa Takeuchi, MD, Gengi Satomi, MD, and Satoshi Yasukouchi, MD

1303 Left Ventricular Pseudoaneurysm Late After Mitral Valve Replacement

Minoru Ono, MD, and Randall K. Wolf, MD

1305 Pulmonary Valve Lipoma Presenting as Syncope

Carlo Pederzolli, MD, Alberto Terrini, MD, Alessandro Ricci, MD, Alessandro Motta, MD, Luigi Martinelli, MD, and Angelo Graffigna, MD

1307 Eosinophilic Heart Disease With

Vasculitis: Supported by HeartMate Left Ventricular Assist Device and Heart Transplantation
Chiao-Po Hsu, MD, Shiao-Hwang Chang, MD, Jih-Shiuan Wang, MD, Chun-Che Shih, MD, Shiau-Ting Lai, MD, and An-Hang Yang, MD

1310 Cardiac Involvement in a Case of Acute Lymphoblastic Leukemia

Ashutosh Hardikar, MCh, FRCS, Prem Shekar, MCh, FRCS, John Stubberfield, FRACS, David R. Craddock, FRCS, FRACS, and Leon P. Bignold, FRCPA

1312 Myocardial Revascularization With the Posterior Tibial Artery

Vichai Benjacholamas, MD, Sirachai Jindarak, MD, and Wacin Buddhari, MD

1314 Delayed Cardiac Tamponade After Coronary Artery Laceration

John Bozinovski, MD, MS, Shaohua Wang, MD, and Someshwar Nakai, MD

1316 Upper Extremity Deep Vein Thrombosis After Radial Artery Harvesting

Mitsumasa Hata, PhD, Alexander Rosalion, FRACS, Siven Seevanayagam, FRACS, Kazuhiro Kohch, MD, and Brian F. Buxton, FRACS

1317 Single-Stage Anatomical Repair of Complete Atrioventricular Canal, Double-Outlet Right Ventricle, and Cor Triatriatum Using Ventricular Septal Defect Translocation

Christo I. Tchervenkov, MD, Stephen J. Korkola, MD, and Marie J. Béland, MD

1320 Management of Neonatal Bronchovenous Fistula After Cardiopulmonary Bypass

Olaf Reinhartz, MD, Anil M. DeSilva, MD, and Frank L. Hanley, MD

1322 Pulmonary Atresia With

Intact Ventricular Septum and Systemic-Pulmonary Collateral Arteries
Sonia B. Albanese, MD, Adriano Carotti, MD, Alessandra Toscano, MD, Bruno Marino, MD, and Roberto M. Di Donato, MD

1324 Spontaneous Coronary Artery

Dissection Presenting as Cardiac Tamponade
Balaji Badmanaban, FRCS, David McCarty, MRCP, Damian J. Mole, MB, ChB, Pascal P. McKeown, FRCP, and Mazin A. I. Sarsam, FRCS (CTh)

IMAGES IN CARDIOTHORACIC SURGERY

1327 Pleuroperitoneal Fistula

Anthony P. C. Yim, MD, Tak Wai Lee, FRCS, Innes Y. P. Wan, FRCS, and Calvin Ng, MB, BS

- 1328 Radiographic Demonstration of Giant Cardiac False Aneurysm**
Andras Kollar, MD, PhD, and Walter H. Merrill, MD

HOW TO DO IT

- 1329 Thoracoscopic Esophagectomy Combined With Mediastinoscopy via the Neck**
Yoshifumi Ikeda, MD, Masanori Niimi, MD, PhD, Shigenao Kan, MD, Hiroshi Takami, MD, and Susumu Kodaira, MD
- 1332 A Method of Repair for Asymmetric Aneurysmal Dilatation of the Ascending Aorta**
Leonid Sternik, MD, Kenton J. Zehr, MD, and Hartzell V. Schaff, MD
- 1335 Periareolar Mediastinoscopy: A New Technique**
Georges S. Tabet, MD, Elie B. Kassabian, MD, Jihane N. Rohayem, MD, and Victor A. Jebara, MD
- 1337 Implant Technique for the Jarvik 2000 Heart**
Stephen Westaby, PhD, FETCS, O.H. Frazier, MD, David W. Pigott, FRCA, Satoshi Saito, MD, PhD, and Robert K. Jarvik, MD

REVIEWS

- 1341 Remodeling of Arterial Conduits in Coronary Grafting**
Hendrick B. Barner, MD
- 1346 Cause of Degenerative Disease of the Trileaflet Aortic Valve: Review of Subject and Presentation of a New Theory**
Francis Robicsek, MD, PhD, Mano J. Thubrikar, PhD, and Alexander A. Fokin, MD, PhD

KEY REFERENCES

- 1355 Transmyocardial Laser Revascularization**
Keith A. Horvath, MD

CORRESPONDENCE

- 1357 Tension Pneumocephalus Secondary to Iatrogenic Subarachnoid Pleural Fistula: Certain Clarifications**
Rana Sandip Singh, MCh, and Ashis Pathak, MCh
Reply
Mark H. Bilsky, MD
- 1357 Open Lung Biopsy in Patients With Congenital Heart Disease**
Matthias Gorenflo, MD

- 1358 Precise Quantification of Pulsatile Flow**
Akif Ündar, PhD, and Mohammed S. Koudieh, MD, and Charles D. Fraser, Jr, MD

Reply
Toshihide Nakano, MD, and Ryuji Tominaga, MD

- 1359 Harvesting of the Radial Artery: Skeletonization Versus Pedicled Technique**
Federico Bizzarri, MD, and Giacomo Frati, MD
Reply
David Taggart, MD, PhD

- 1360 Is Retrograde Perfusion Necessary for Spinal Cord Protection?**
Tadaomi-Alfonso Miyamoto, MD, and Koho-Julio Miyamoto, MD, PhD

Reply
James J. Gangemi, MD, and John A. Kern, MD, and Irving L. Kron, MD, and Curtis G. Tribble, MD

REVIEW OF RECENT BOOKS

- 1362 Ischemia-Reperfusion Injury in Cardiac Surgery** edited by Friedhelm Beyersdorf, MD
Irving L. Kron, MD

ANNOUNCEMENTS

- A-42-44 Events of Interest**
- 1059 Internet Discussion Forum**
- 1106 Requirements for Recertification/Maintenance of Certification in 2002**
- 1129 Southern Thoracic Surgical Association: Forty-ninth Annual Meeting**
- 1137 The Thoracic Surgery Foundation for Research and Education**
- 1142 Notice From the American Board of Thoracic Surgery Regarding Trainees and Candidates for Certification Who Are Called to Military Service Related to the War on Terrorism**
- 1159 Notice From the American Board of Thoracic Surgery**
- 1281 The Society of Thoracic Surgeons: Thirty-ninth Annual Meeting**
- A-49-51 The Thoracic Surgery Foundation for Research and Education**
- A-52-55 Classified Advertisements**
- A-56 Index to Advertisers**

Number 5 May 2002

ANNOUNCEMENT

1363 Editorial Board Changes

ETHICS IN CARDIOTHORACIC SURGERY

1364 Responsibilities of Investigators

Robert M. Sade, MD, and Martin McKneally, MD, for the Ethics Forum

EDITORIALS

1366 Arterial Conduits for Coronary Artery Bypass Grafting: A Bridge Over Troubled Water
Hisayoshi Suma, MD

1368 Ventricular Remodeling
Surgery for Heart Failure: Small Animals and How to Measure an Improvement in Ventricular Function
John R. Teerlink, MD, and Mark B. Ratcliffe, MD

ORIGINAL ARTICLES: CARDIOVASCULAR

1371 Coronary Artery Bypass Grafting Using the Gastroepiploic Artery in 1,000 Patients
Hitoshi Hirose, MD, FICS, Atushi Amano, MD, Shuichirou Takanashi, MD, and Akihito Takahashi, MD

1380 Hospital Readmission
After Coronary Artery Bypass Grafting: Are Women Doing Worse?
Johnny Steuer, MD, Paul Blomqvist, MD, PhD, Fredrik Granath, PhD, Bo Rydh, BS, Anders Ekbom, MD, PhD, Ulf de Faire, MD, PhD, and Elisabeth Ståhle, MD, PhD

1387 Impact of Aortic Manipulation on Incidence of Cerebrovascular Accidents
After Surgical Myocardial Revascularization
Antonio M. Calafiore, MD, Michele Di Mauro, MD, Giovanni Teodori, MD, Gabriele Di Giammarco, MD, Sergio Cirmeni, MD, Marco Contini, MD, Angela L. Iacò, MD, and Marco Pano, MD

1394 Safe, Highly Selective Use of Pulmonary Artery Catheters in Coronary Artery Bypass Grafting: An Objective Patient Selection Method
Thomas A. Schwann, MD, Anoar Zacharias, MD, Christopher J. Riordan, MD, Samuel J. Durham, MD, Milo Engoren, MD, and Robert H. Habib, PhD

Invited Commentary
William Hanson III, MD

1403 Cost-Effectiveness of

Preoperative Positron Emission Tomography in Ischemic Heart Disease
Paul B. Jacklin, MS, Sally F. Barrington, MRCP, James C. Roxburgh, FRCS, Graham Jackson, FACC, Dimitrios Sariklis, PhD, Peter A. West, DPhil, and Michael N. Maisey, MD

Invited Commentary
A. P. Kappetein, MD, PhD

1411 Intracoronary Shunts

Reduce Transient Intraoperative Myocardial Dysfunction During Off-Pump Coronary Operations
Mark Yeatman, FRCS, Massimo Caputo, MD, Pradeep Narayan, FRCS, Arup Kumar Ghosh, FRCS, Raimondo Ascione, MD, Ian Ryder, FRCA, and Gianni D. Angelini, FRCS

Invited Commentary
J. D. Puskas

1418 Occlusion Versus Shunting During MIDCAB: Effects on Left Ventricular Function and Quality of Anastomosis

Ares K. Menon, MD, Johannes M. Albes, MD, Martin Oberhoff, MD, Karl R. Karsch, MD, and Gerhard Ziemer, MD

1424 Mitral Annulus Distortion

During Beating Heart Surgery: A Potential Cause for Hemodynamic Disturbance—A Three-Dimensional Echocardiography Reconstruction Study
Shane J. George, FRCP, FRCA, Sharif Al-Ruzzeh, FRCS, and Mohamed Amrani, FETCS, PhD

1431 Early Clinical and Angiographic Outcome of the Pedicled Right Internal Thoracic Artery Graft to the Left Anterior Descending Artery

Sharif Al-Ruzzeh, FRCS, Shane George, FRCA, Mahmoud Bustami, MRCP, Koki Nakamura, MD, Charles Ilsley, FRCP, and Mohamed Amrani, FETCS

1436 Isolated Myocardial Revascularization With Intermittent Aortic Cross-Clamping: Experience With 800 Cases

Lucia Raco, MD, Edward Mills, MBBS, and Russell J. W. Millner, MD, FRCS (CTh)

Invited Commentary
Ruggero De Paulis, MD

- 1441 Effects of Skeletonization on Intraoperative Flow and Anastomosis Diameter of Internal Thoracic Arteries in Coronary Artery Bypass Grafting**
Yoshiyuki Takami, MD, and Hiroshi Ina, MD
- 1446 Intraoperative Evaluation of Coronary Anastomosis by Transit-Time Ultrasonic Flow Measurement**
Tetsuro Morota, MD, PhD, Francis G. Duhaylongsod, MD, William R. Burfeind, MD, and Ching-Tsorng Huang, MD
- 1451 Coronary End-to-Side Sleeve Anastomosis Using Adhesive in Off-Pump Bypass Grafting in the Pig**
Marc P. Buijsrogge, MD, Cees W. J. Verlaan, Mattie H. P. van Rijen, BS, Paul F. Gründeman, MD, PhD, and Cornelius Borst, MD, PhD
- 1457 Repetitive Atrial Flutter as a Complication of the Left-Sided Simple Maze Procedure**
Akihiko Usui, MD, Yasuya Inden, MD, Shinichi Mizutani, MD, Yasushi Takagi, MD, Toshiaki Akita, MD, and Yuichi Ueda, MD
- 1460 Hemodynamic Stability During 17 Years of the Carpentier-Edwards Aortic Pericardial Bioprostheses**
Michael K. Banbury, MD, Delos M. Cosgrove III, MD, James D. Thomas, MD, Eugene H. Blackstone, MD, Jeevanantham Rajeswaran, MS, J. Edward Okies, MD, and Robert M. Frater, MD
- 1466 Long-Term Results of Aortic Valve Regurgitation After Repair of Ruptured Sinus of Valsalva Aneurysm**
Toshifumi Murashita, MD, PhD, Takehiro Kubota, MD, Yasuhiro Kamikubo, MD, PhD, Norihiko Shiyya, MD, PhD, and Keishu Yasuda, MD, PhD
- 1472 Long-Term Survival and Quality of Life in Cardiac Surgical Patients With Prolonged Intensive Care Unit Length of Stay**
Mathew R. Williams, MD, Rachel B. Wellner, BA, Elizabeth A. Hartnett, BA, Barbara Thornton, MS, Minoo N. Kavarana, MD, Robert Mahapatra, BA, Mehmet C. Oz, MD, and Robert Sladen, MD
- 1479 Catheter Pericardiocentesis for Delayed Tamponade After Cardiac Valve Operation**
Abeel A. Mangi, MD, Igor F. Palacios, MD, and David F. Torchiana, MD
- 1484 Liberal Use of Delayed Sternal Closure for Postcardiotomy Hemodynamic Instability**
Curtis A. Anderson, MD, Farzan Filsoufi, MD, Lishan Aklog, MD, Robert S. Farivar, MD, PhD, John G. Byrne, MD, and David H. Adams, MD
- 1489 Treatment of End-Stage Heart Disease With Outpatient Ventricular Assist Devices**
William L. Holman, MD, James E. Davies, MD, Barry K. Rayburn, MD, David C. McGiffin, MD, Brian A. Foley, MD, Raymond L. Benza, MD, Robert C. Bourge, MD, Peggy Blood, RN, and James K. Kirklin, MD
- 1495 Myocardial Preservation Using Celsior Solution in Cardiac Transplantation: Early Results and 5-Year Follow-Up of a Multicenter Prospective Study of 70 Cardiac Transplantations**
Jean-Paul Remadi, MD, Olivier Baron, MD, Jean C. Roussel, MD, Oussana Al Habash, MD, Michele Treilhaud, MD, Philippe Despins, MD, Daniel Duveau, MD, and Jean-Luc Michaud, MD
- 1500 BioGlue Surgical Adhesive Impairs Aortic Growth and Causes Anastomotic Strictures**
Scott A. LeMaire, MD, Zachary C. Schmittling, MD, Joseph S. Coselli, MD, Akif Ündar, PhD, Blake A. Deady, BS, Fred J. Clubb, Jr, DVM, PhD, and Charles D. Fraser, Jr, MD
- 1507 Myocardial Infarction Scar Plication in the Rat: Cardiac Mechanics in an Animal Model for Surgical Procedures**
Rosemeire M. Kanashiro, MS, Emilia Nozawa, MS, Neif Murad, MD, PhD, Luis R. Gerola, MD, PhD, Valdir A. Moisés, MD, PhD, and Paulo J. F. Tucci, MD, PhD
- 1514 Increased Pressure During Retrograde Cerebral Perfusion in an Acute Porcine Model Improves Brain Tissue Perfusion Without Increase in Tissue Edema**
Zhijun Li, MD, Luojia Yang, MD, Michael Jackson, PhD, Randy Summers, MS, Maureen Donnelly, BS, Roxanne Deslauriers, PhD, and Jian Ye, MD
- 1522 Pretreatment With Angiotensin-Converting Enzyme Inhibitors Attenuates Ischemia-Reperfusion Injury**
Harold L. Lazar, MD, Yusheng Bao, MD, Samuel Rivers, BS, and Sheilah A. Bernard, MD

- 1528 Use of Autologous Auricular Chondrocytes for Lining Artificial Surfaces: A Feasibility Study**
 Timothy Scott-Burden, PhD, Jennifer P. Bosley, BS, Doreen Rosenstrauch, RN, MD, Kimberly D. Henderson, BS, Fred J. Clubb, Jr, DVM, PhD, Harald C. Eichstaedt, MD, Kazuhiro Eya, MD, Igor Gregoric, MD, Timothy J. Myers, BS, Branislav Radovancevic, MD, and O. H. Frazier, MD

ORIGINAL ARTICLES:
GENERAL THORACIC

- 1534 Management of Superior Sulcus Tumors: Experience With 139 Cases Treated by Surgical Resection**
 Emmanuel Martinod, MD, Alexandre D'Audiffret, MD, Pascal Thomas, MD, Alain J. Wurtz, MD, Marcel Dahan, MD, Marc Riquet, MD, Antoine Dujon, MD, René Jancovici, MD, Roger Giudicelli, MD, Pierre Fuentes, MD, and Jacques F. Azorin, MD

Invited Commentary
 David M. Shahian, MD

- 1541 Induction Chemoradiation Compared With Induction Radiation for Lung Cancer Involving the Superior Sulcus**
 Cameron D. Wright, MD, Matthew T. Menard, MD, John C. Wain, MD, Dean M. Donahue, MD, Hermes C. Grillo, MD, Thomas J. Lynch, MD, Noah C. Choi, MD, and Douglas J. Mathisen, MD

- 1545 Surgical Treatment of Non-Small Cell Lung Cancer 1 cm or Less in Diameter**
 Daniel L. Miller, MD, Charles M. Rowland, MS, Claude Deschamps, MD, Mark S. Allen, MD, Victor F. Trastek, MD, and Peter C. Pairolo, MD

- 1552 Diagnosis of Visceral Pleural Invasion by Lung Cancer Using Intraoperative Touch Cytology**
 Yushi Saito, MD, PhD, Yosuke Yamakawa, MD, PhD, Masanobu Kiriya, MD, PhD, Ichiro Fukai, MD, PhD, Satoshi Kondo, MD, PhD, Masahiro Kaji, MD, Motoki Yano, MD, Tomoki Yokoyama, MD, and Yoshitaka Fujii, MD, PhD

Invited Commentary
 Ronald B. Ponn, MD

- 1558 Micrometastasis to Lymph Nodes in Stage I Left Lung Cancer Patients**
 Ryoji Kawano, MD, Enjo Hata, MD, Shingo Ikeda, MD, and Hirozo Sakaguchi, MD

Invited Commentary
 Robert J. Ginsberg, MD

- 1563 Usefulness of Videothoracoscopic Intrapericardial Examination of Pulmonary Vessels to Identify Resectable Clinical T4 Lung Cancer**
 Jesús Loscertales, MD, PhD, Rafael Jiménez-Merchán, MD, PhD, Miguel Congregado-Loscertales, MD, PhD, Carlos Arenas-Linares, MD, PhD, Juan Carlos Girón-Arjona, MD, Andrés Arroyo Tristan, MD, and Javier Ayarra, MD, PhD

- 1567 Cell Membrane Fluidity and Prognosis of Lung Cancer**
 Miha Sok, MD, PhD, Marjeta Šentjurc, PhD, Milan Schara, PhD, Janez Stare, PhD, and Tomaž Rott, MD, PhD

- 1572 Pulmonary Blastoma: Medium-Term Results From a Regional Center**
 Afzal Zaidi, FRCS, Vipin Zamvar, FRCS(CTh), Fergus Macbeth, FRCR, Allen R. Gibbs, FRCPath, Nihal Kulatilake, FRCS, and Eric G. Butchart, FRCS

- 1576 Neural Networks as a Prognostic Tool of Surgical Risk in Lung Resections**
 Hugo Esteva, MD, Alberto Marchevsky, MD, Tomás Núñez, MD, Carlos Luna, MD, and Mercedes Esteva

- 1582 Natriuretic Peptides After Pulmonary Resection**
 Kohsuke Tayama, MD, Shinzo Takamori, MD, Masahiro Mitsuoka, MD, Akihiro Hayashi, MD, Kohichi Tamura, MD, Hiroharu Mifune, PhD, and Kazuo Shirouzu, MD

- 1587 Outcomes of Lung Volume Reduction Surgery Followed by Lung Transplantation: A Matched Cohort Study**
 Karen E. A. Burns, MD, Robert J. Keenan, MD, W. F. Grgurich, BS, Jan D. Manzetti, PhD, and Marc Zenati, MD

- 1594 Cystic Lung Lesions in the Pediatric and Adult Population: Surgical Experience at the Brompton Hospital**
 Konstantinos Papagiannopoulos, MMED (Thorax), Sean Hughes, MBBS, Andrew G. Nicholson, MRCPPath, and Peter Goldstraw, FRCS

- 1599 Pulmonary Vein Gas Analysis for Assessing Donor Lung Function**
 Tarek M. Aziz, FRCS, Ahmed El-Gamel, FRCS, Rasheed A. G. Saad, MRCS, Marcello Migliore, FETS, Colin S. Campbell, FRCS, and Nizar A. Yonan, FRCS

Invited Commentary
 John V. Conte, MD

- 1606 Endothelial Cell Injury Induced by Preservation Solutions: A Confocal Microscopy Study**
Francesco Alamanni, MD, Alessandro Parolari, MD, PhD, Rossana Visigalli, BS, PhD, Ovidio Bussolati, MD, PhD, Patrizia Rubini, MD, PhD, Roberto Sala, MD, PhD, Luigi Bonati, MD, Gian Carlo Gazzola, MD, Paolo Biglioli, MD, and Valeria Dall'Asta, BS
- Invited Commentary*
Paul M. W. Fedak, MD
Richard D. Weisel, MD
Subodh Verma, MD, PhD
Vivek Rao, MD, PhD
-
- CASE REPORTS**
- 1616 Type-A Acute Aortic Dissection: Combined Operation Plus Stent Management**
Daniel Roux, MD, Laurent Bouchet, MD, Philippe Concina, MD, Tamer Elghobary, MD, Yves Glock, MD, PhD, and Gérard Fournial, MD
- 1618 Hybrid Management of Aortic Rupture and Lung Failure: Pumpless Extracorporeal Lung Assist and Endovascular Stent-Graft**
Franz X. Schmid, MD, Alois Philipp, MD, Johann Link, MD, Markus Zimmermann, MD, and Dietrich E. Birnbaum, MD
- 1621 Conventional Repair and Operative Stent-Grafting for Acute and Chronic Aortic Dissection**
Takeshi Miyairi, MD, Mikio Ninomiya, MD, Munemoto Endoh, MD, Junichi Naganuma, MD, Yutaka Kotsuka, MD, and Shinichi Takamoto, MD
- 1623 Late Presentation of Retained Intracardiac Ice Pick With Papillary Muscle Injury**
Malek G. Massad, MD, Fadi Khoury, MD, Alexander Evans, MD, Christian Sirois, MD, Rabih Chaer, MD, Yaulunda Thomas, MD, Norman J. Snow, MD, Joan Briller, MD, and Alexander S. Geha, MD
- 1626 Lifesaving Citrate Anticoagulation to Bridge to Danaparoid Treatment**
Martin Dworschak, MD, Jörg Michael Hiesmayr, MD, and Andrea Lassnigg, MD
- 1628 Successful Intraventricular Thrombolysis During Ventricular Assist Device Support**
Claudio Russo, MD, Anna Maria De Biase, MD, Giuseppe Bruschi, MD, Salvatore Agati, MD, and Ettore Vitali, MD
- 1629 Retropericardial Hematoma Complicating Off-Pump Coronary Artery Bypass Surgery**
Toshihiro Fukui, MD, Shigefumi Suehiro, MD, Toshihiko Shibata, MD, Koji Hattori, MD, and Hidekazu Hirai, MD
- 1631 Right Ventricular Metastatic Choriocarcinoma Obstructing Inflow and Outflow Tract**
Borut Gersak, MD, Nikola Lakic, MD, Vojka Gorjup, MD, Tanja Gulic, MD, Pavle Berden, MD, and Natasa Suligoj Cernic, MD
- 1633 Successful Resection of an Epicardial Cyst**
Roberto Scrofani, MD, Cristina Carro, MD, Luigi Beretta, MD, and Carlo Antoni, MD
- 1634 Aortopulmonary Fistula After Coarctation Repair With Dacron Patch Aortoplasty**
Leo O. Heikkinen, MD, PhD, and Antero A. Järvinen, MD, PhD
- 1636 Atypical Presentation of an Anomalous Origin of the Right Coronary Artery With Severe Compression Between the Great Vessels**
Sylvie K. Giroux, MD, and Raymond Cartier, MD
- 1638 Pleural Flap for Treating Perigraft Leak After a Modified Blalock-Taussig Shunt**
Baran Sevket Ugurlu, MD, Osman Nejat Sarıosmanoglu, MD, Sadik Kivanc Metin, MD, Eyüp Hazan, MD, and Oztekin Oto, MD
- 1640 Aortic Coarctation, Vascular Ring, and Right Aortic Arch With Aberrant Subclavian Artery**
Juan-Miguel Gil-Jaurena, MD, Marcos Murtra, MD, PhD, Arturo Gonçalves, MD, and Luis Miró, MD
- 1642 Ectopic Thyroid Tissue on the Ascending Aorta: An Operative Finding**
Richard J. Williams, FRCS(CTh), George Lindop, FRCPPath, and John Butler, FRCSI(CTh)
- 1643 Surgical Treatment of a Long Thoracic Nerve Palsy**
Christine B. Novak, PT, MS, and Susan E. Mackinnon, MD
- 1645 Bullets and Biliptysis**
John J. Nigro, MD, MS, Hector Arroyo, Jr, MD, Demitri Theodorou, MD, George C. Velmahos, MD, PhD, and Ross M. Bremner, MD, PhD
- 1647 Massive Gas Embolism During Pulmonary Nodule Hook Wire Localization**
Thomas A. Horan, FRCSC, Petrúcia M. Pinheiro, MD, Luis M. Araújo, MD, Flávia F. Santiago, MD, and Monica R. Rodrigues, MD
- 1649 McKeown Esophagogastrectomy for Esophageal Carcinoma After Free Jejunal Graft**
Douglas P. MacMillan, MD, Ignacio G. Duarte, MD, Kamal A. Mansour, MD, and R. Sudhir Sundaresan, MD

1651 Brown Tumor of the Sternum

Chiung-Lun Kao, MD, Jen-Ping Chang, MD, Juie-Wei Lin, MD, and Cheng-Ching Lin, MD

1653 Mediastinal Angioleiomyoma

Hidehito Matsuoka, MD, Wataru Nishio, MD, Toshihiko Sakamoto, MD, Hiroaki Harada, MD, Terumasa Sashikata, MD, and Noriaki Tsubota, MD

IMAGES IN CARDIOTHORACIC SURGERY**1655 Three-Dimensional Imaging of Coronary Artery Bypass Grafts**

Yoshihiro Sawamura, MD, Kei Takase, MD, Haruo Saito, MD, Sekinori Kikuchi, MD, and Takashi Ito, MD

1656 Intramyocardial Echinococcus Cyst

Sohaila M. Ali, MD, and Joseph S. McLaughlin, MD

HOW TO DO IT**1657 Port-Access Approach for Combined Aortic and Mitral Valve Surgery**

Alan P. Kypson, MD, and Donald D. Glower, MD

1659 Simplified Technique for Determining the Length of Artificial Chordae in Mitral Valve Repair

Mazin A. I. Sarsam, FRCS, FRCS (Ed)

1661 Repair of Transverse Sternal Nonunions Using Metal Plates and Autogenous Bone Graft

Kim C. Bertin, MD, Robert S. Rice, BA, Donald B. Doty, MD, and Kent W. Jones, MD

1663 Everting Mattress Running Suture: An Improved Technique of Atrial Anastomosis in Human Lung Transplantation

Marc de Perrot, MD, MS, and Shaf Keshavjee, MD, MSc

REVIEWS**1665 Role of Amiodarone in Reducing Atrial Fibrillation After Cardiac Surgery in Adults**

Constance K. Haan, MD, and Stephen A. Geraci, MD

1670 Mechanical Circulatory Support for Infants and Children With Cardiac Disease

Brian W. Duncan, MD

OUR SURGICAL HERITAGE**1678 Aortic Coarctation**

Reconstructed by Resection and Homograft Replacement in the 1950s: Long-Term Outcome 40 Years After Operation
Tivadar Hüttl, MD, PhD, György Balázs, MD, László Entz, MD, PhD, Kálmán Hüttl, MD, PhD, Elek Bodor, MD, PhD, and Zoltán Szabolcs, MD, PhD

REPORT**1681 Thirty-eighth Annual Meeting, The Society of Thoracic Surgeons****CORRESPONDENCE****1688 Proposed Policy for VAD Removal**

Kenneth M. Prager, MD, and Mehmet Oz, MD

1689 Monitoring Recovery and Weaning From the Thoratec Left Ventricular Assist Device

Angel L. Fernández, MD, and Amparo Martínez, MD

1689 Second Order Anterior Mitral Leaflets Play a Role in Preventing Systolic Anterior Motion

Jean-François Obadia, MD, PhD, and Marc Janier, MD, PhD

Reply

D. Craig Miller, MD

1691 Open Heart Surgery and Abdominal Aortic Aneurysm

George Economopoulos, MD, and John Iliopoulos, MD

Reply

Raimondo Ascione, MD, Gabriele Iannelli, MD, and Nicola Spampinato, MD

1692 Replacement of the Iliac Vein

Carlos Del Campo, FRCS (C)

Reply

Satoshi Saito, MD, PhD

1692 Neuroendocrine Tumors of the Lung and Octreotide Scintigraphy

Pier Luigi Filosso, MD, Ottavio Rena, MD, Enrico Ruffini, MD, and Alberto Oliaro, MD

Reply

Eduardo A. Tovar, MD

1694 Survival After Resection of Metachronous Non-Small Cell Lung Cancer

Branislav Jeremic, MD

1694 Necrotizing Soft Tissue**Infection of the Chest Wall**

Julian E. Losanoff, MD, Bruce W. Richman, MA, and James W. Jones, MD, PhD

Reply

David B. Safran, MD, and William G. Sullivan, MD

- 1695 Preventing Radial Artery Spasm**
Franklin L. Rosenfeldt, FRACS, and Donald S. Esmore, FRACS

Reply
James L. Zellner, MD, and Francis G. Spinale, MD, PhD

ANNOUNCEMENTS

- A-48-50 Events of Interest**
- 1402 Internet Discussion Forum**
- 1440 Requirement for Recertification/Maintenance of Certification in 2002**
- 1445 Southern Thoracic Surgical Association: Forty-ninth Annual Meeting**
- 1450 Notice From the American Board of Thoracic Surgery Regarding Trainees and Candidates for Certification Who Are Called to Military Service Related to the War on Terrorism**

- 1471 The Thoracic Surgery Foundation for Research and Education**
- 1478 Notice From the American Board of Thoracic Surgery**
- 1494 The Society of Thoracic Surgeons: Thity-ninth Annual Meting**
- A-55 Information About Membership in The Society of Thoracic Surgeons**
- A-56 2003 Annual Meeting of The Society of Thoracic Surgeons, Call for Abstracts**
- A-57 Disclosure Form for Presenters and Authors**
- A-58-59 Classified Advertisements**
- A-74 Index to Advertisers**

Number 6 **June 2002**

ORIGINAL ARTICLES: GENERAL THORACIC

- 1697 High-Grade Esophageal Dysplasia: Long-Term Survival and Quality of Life After Esophagectomy**
James R. Headrick, MD, Francis C. Nichols III, MD, Daniel L. Miller, MD, Mark S. Allen, MD, Victor F. Trastek, MD, Claude Deschamps, MD, Cathy D. Schleck, BS, Ann M. Thompson, RN, and Peter C. Pairolo, MD

- 1704 The Influence of Perioperative Blood Transfusion on Survival After Esophageal Resection for Carcinoma**
Stephen M. Langley, MD, FRCS(CTh), Christos Alexiou, FRCS, Daniel H. Bailey, MBBS, and David F. Weeden, FRCS(CTh)

- 1710 Thoracoscopic and Laparoscopic Lymph Node Staging in Esophageal Cancer: Do Clinicopathological Factors Affect the Outcome?**
Mark J. Krasna, MD, Xiaolong Jiao, MD, Joshua R. Sonett, MD, Ziv Gamliel, MD, Afshin Eslami, MD, Yael Raefaly, MD, and Yousheng Mao, MD

- 1714 Chylothorax Complicating Pulmonary Resection**
Françoise Le Pimpec-Barthes, MD, Nicola D'Attellis, MD, Antoine Dujon, MD, Philippe Legman, MD, and Marc Riquet, MD, PhD

- 1720 Chest Wall Resections and Reconstruction: A 25-Year Experience**
Kamal A. Mansour, MD, Vinod H. Thourani, MD, Albert Losken, MD, James G. Reeves, BS, Joseph I. Miller, Jr, MD, Grant W. Carlson, MD, and Glyn E. Jones, MD

- 1727 Predictors and Treatment of Persistent Air Leaks**
Robert J. Cerfolio, MD, FACS, Cynthia Sale Bass, CRNP, Amanda Harrison Pask, RN, and Charles R. Katholi, PhD

- 1732 Prognostic Significance of Neuroendocrine Differentiation in Adenocarcinoma of the Lung**
Kenzo Hiroshima, MD, Akira Iyoda, MD, Kiyoshi Shibuya, MD, Tetsuya Toyozaki, MD, Yukiko Haga, MD, Takehiko Fujisawa, MD, and Hidemi Ohwada, MD

- 1736 Personal Experience in Lung Cancer Sleeve Lobectomy and Sleeve Pneumonectomy**
Maurizio Mezzetti, MD, Tiziana Panigalli, MD, Luigi Giuliani, MD, Federico Raveglia, MD, Fabio Lo Giudice, MD, and Stefano Meda, MD

- 1740 Adenoviral Herpes Simplex Virus Thymidine Kinase Gene Therapy in an Orthotopic Lung Cancer Model**
Mari Fukunaga, MD, Shinzo Takamori, MD, Akihiro Hayashi, MD, Kazuo Shirouzu, MD, and Ken-ichiro Kosai, MD, PhD

- 1747 Survival Analysis of Rats Implanted With Porous Titanium Tracheal Prosthesis**
Philippe Schultz, MD, Dominique Vautier, PhD, Johanna Chluba, PhD, Luc Marcellin, MD, and Christian Debry, MD, PhD

ORIGINAL ARTICLES: CARDIOVASCULAR

- 1752 Current Incidence of Acute Neurologic Complications After Open-Heart Operations in Children**
Caroline C. Menache, MD, André J. du Plessis, MBChB, David L. Wessel, MD, Richard A. Jonas, MD, and Jane W. Newburger, MD

- 1759 Comparable Systemic Ventricular Function in Healthy Adults and Patients With Unoperated Congenitally Corrected Transposition Using MRI Dobutamine Stress Testing**
Ali Dodge-Khatami, MD, Igor I. Tulevski, MD, Ger B. W. E. Bennink, MD, PhD, J. François Hitchcock, MD, PhD, Bas A. J. M. de Mol, MD, PhD, Ernst E. van der Wall, MD, PhD, and Barbara J. M. Mulder, MD, PhD

- 1765 Change of Serum Growth Factors in Infants With Isolated Ventricular Defect Undergoing Surgical Repair**
Tsung-Po Tsai, MD, Jung-Min Yu, MD, Yi-Liang Wu, MD, and Chih-Yang Huang, PhD, and Fong-Lin Chen, MD

Invited Commentary
Pedro J. del Nido, MD

- 1770 Coagulation Factor Abnormalities in Patients With Single-Ventricle Physiology Immediately Prior to the Fontan Procedure**
Kirsten C. Odegard, MD, Francis X. McGowan, Jr, MD, David Zurakowski, PhD, James A. DiNardo, MD, Robert A. Castro, MT, Pedro J. del Nido, MD, and Peter C. Laussen, MBBS

- 1778 Valved Homograft Replacement of Aneurysmal Pulmonary Arteries for Severely Symptomatic Absent Pulmonary Valve Syndrome**
Chee Chin Hew, MD, Sabine H. Daebritz, MD, David Zurakowski, PhD, Pedro J. del Nido, MD, John E. Mayer, Jr, MD, and Richard A. Jonas, MD

- 1786 Repair of Ebstein's Anomaly in the Symptomatic Neonate: An Evolution of Technique With 7-Year Follow-Up**
Christopher J. Knott-Craig, MD, Edward D. Overholt, MD, Kent E. Ward, MD, Jeremy M. Ringewald, MD, Sherri S. Baker, MD, and Jerry D. Razook, MD

- 1794 Right Ventricular Dysfunction and Pulmonary Valve Replacement After Correction of Tetralogy of Fallot**
Frank T. H. de Ruijter, MD, Ineke Weenink, MD, Francois J. Hitchcock, MD, Erik J. Meijboom, MD, PhD, and Ger B. W. E. Bennink, MD, PhD

- 1801 One Hundred Pulmonary Valve Replacements in Children After Relief of Right Ventricular Outflow Tract Obstruction**
Kirk R. Kanter, MD, Jason M. Budde, MD, W. James Parks, MD, Vincent K. H. Tam, MD, Shiva Sharma, MD, Willis H. Williams, MD, and Derek A. Fyfe, MD

- 1808 Partial Replacement of the Tricuspid Valve by Mitral Homografts in Acute Endocarditis**
Jean-Paul A. Couetil, MD, Pantelis G. Argyriadis, MD, Abdel Shafy, MD, Ariel Cohen, MD, Alain J. Berrebi, MD, Didier F. Loulmet, MD, Juan-Carlos Chachques, MD, PhD, and Alain F. Carpentier, MD, PhD

- 1813 Endocarditis After Mitral Valve Repair**
A. Marc Gillinov, MD, Christiano N. Faber, MD, Joseph F. Sabik, MD, Gosta Pettersson, MD, Brian P. Griffin, MD, Steven M. Gordon, MD, Emil Hayek, MD, Linda M. Di Paola, BA, Delos M. Cosgrove III, MD, and Eugene H. Blackstone, MD

- 1817 Eight-Year Results of Aortic Root Replacement With the Freestyle Stentless Porcine Aortic Root Bioprosthesis**
Neal D. Kon, MD, Robert D. Riley, MD, Sandy M. Adair, RN, Dalane W. Kitzman, MD, and A. Robert Cordell, MD

- 1822 Patient Prostheses Mismatch Is Rare After Aortic Valve Replacement: Valve Size May Be Irrelevant**
Naoki Hanayama, MD, George T. Christakis, MD, Hari R. Mallidi, MD, Campbell D. Joyner, MD, Stephen E. Fremes, MD, Christopher D. Morgan, MD, Peter R. R. Mitoff, and Bernard S. Goldman, MD

- 1830 Preliminary Experience With the St. Jude Medical Regent Mechanical Heart Valve in the Aortic Position: Early In Vivo Hemodynamic Results**
Sandro Gelsomino, MD, Giorgio Morocutti, MD, Paolo Da Col, MD, Romeo Frassani, MD, Rocco Carella, MD, Giorgio Minen, MD, and Ugolino Livi, MD
- Invited Commentary*
W.R. Eric Jamieson, MD
- 1837 Aortic Arch Repair With Right Brachial Artery Perfusion**
Oğuz Taşdemir, MD, Ahmet Sarıtaş, MD, Şeref Küçüker, MD, Mehmet Ali Özatik, MD, and Erol Şener, MD
- 1843 Surgical Treatment of Acute Type A Dissection: Is Rupture a Risk Factor?**
Marek P. Ehrlich, MD, Martin Grabenwöger, MD, Juliane Kilo, MD, Alfred A. Kocher, MD, Georg Grubhofer, MD, Andrea M. Lassnig, MD, Edda M. Tscherenko, MD, Bernhard Schlechta, MD, Doris Hutschala, MD, Hans Domanovits, MD, Gottfried Sodeck, MD, and Ernst Wolner, MD
- 1849 Coronary Hybrid Revascularization from January 1997 to January 2001: A Clinical Follow-Up**
Friedrich-Christian Riess, MD, Ralf Bader, MD, Peter Kremer, MD, Clemens Kühn, MD, Joachim Kormann, MD, Detlef Mathey, MD, Sina Moshar, MD, Thilo Tuebler, MD, Niels Bleese, MD, and Joachim Schofer, MD
- 1856 Right Internal Mammary Artery and Radial Artery Composite In Situ Pedicle Graft in Coronary Artery Bypass Grafting**
Lokeswara Rao Sajja, MCh, and Gopichand Mannam, FRCS(CT)
- 1860 Effects of Cerivastatin on Vascular Function of Human Radial and Left Internal Thoracic Arteries**
Koki Nakamura, MD, Sharif Al-Ruzzeh, FRCS, Adrian H. Chester, PhD, Ilona Schmidt, MD, Mahmoud Barbir, FRCP, Magdi H. Yacoub, FRCS, and Mohamed Amrani, FETCS
- Invited Commentary*
Guo-Wei He, MD, PhD
- 1866 Evaluation of the Effectiveness of Off-Pump Coronary Artery Bypass Grafting in High-Risk Patients: An Observational Study**
Martin H. Chamberlain, FRCS, Raimondo Ascione, MD, Barnaby C. Reeves, DPhil, and Gianni D. Angelini, FRCS
- 1874 Hemodynamic Collapse during Off-Pump Coronary Artery Bypass Grafting**
Thomas A. Vassiliades, Jr, MD, James L. Nielsen, MD, and James L. Lonquist, MD
- 1880 Skeletonized Radial Artery Grafting: Improved Angiographic Results**
Atsushi Amano, MD, Akihito Takahashi, MD, and Hitoshi Hirose, MD, FICS
- 1888 Factors Influencing Results and Outcome After Transmyocardial Laser Revascularization**
Thomas Krabatsch, MD, Rainer Petzina, MD, Harald Hausmann, MD, Andreas Koster, MD, and Roland Hetzer, PhD
- 1893 Laser-Assist During Extraction of Chronically Implanted Pacemaker and Defibrillator Leads**
Marc R. Moon, MD, Cindy J. Camillo, RN, and Marye J. Gleva, MD
- 1897 Aprotinin in Coronary Operation With Cardiopulmonary Bypass: Does "Low-Dose" Aprotinin Inhibit the Inflammatory Response?**
Lars Englberger, MD, Beat Kipfer, MD, Pascal A. Berdat, MD, Urs E. Nydegger, MD, and Thierry P. Carrel, MD
-
- ORIGINAL ARTICLES:**
CARDIOVASCULAR
-
- 1905 Lactic Acidosis After Cardiac Surgery Is Associated With Polymorphisms in Tumor Necrosis Factor and Interleukin 10 Genes**
Thomas Ryan, FFARCSI, Joanna Balding, BA, Mod (Genetics), Eilis M. McGovern, FRCSI, John Hinchion, FRCSI, Wendy Livingstone, PhD, Zeb Chughtai, FRCSI, and Owen P. Smith, FRCPI
- Invited Commentary*
A. Leins, MD, and J. Cremer, MD, PhD
- 1912 Retrograde Autologous Priming of the Cardiopulmonary Bypass Circuit Reduces Blood Transfusion After Coronary Artery Surgery**
Subramaniam Balachandran, FRCA, Michael H. Cross, FRCA, Sivagnanam Karthikeyan, FRCA, Anilkumar Mulpur, FRCS, Stephen D. Hansbro, and Peter Hobson, BS
- 1919 Mesenchymal Stem Cell Implantation in a Swine Myocardial Infarct Model: Engraftment and Functional Effects**
Jay G. Shake, MD, Peter J. Gruber, MD, PhD, William A. Baumgartner, MD, Guylaine Senechal, MS, Jennifer Meyers, BS, J. Mark Redmond, MD, Mark F. Pittenger, PhD, and Bradley J. Martin, PhD

- 1927 Avoiding Ischemia in Latissimus Dorsi Muscle Grafts: Electrical Prestimulation Versus Vascular Delay**
Edwin B. C. Woo, FRCS, Jonathan C. Jarvis, PhD, Timothy L. Hooper, MD, and Stanley Salmons, PhD
- 1933 Platelet Activation, Aggregation, and Life Span in Calves Implanted With Axial Flow Ventricular Assist Devices**
Trevor A. Snyder, BSE, Mary J. Watach, BS, Kenneth N. Litwak, DVM, PhD, and William R. Wagner, PhD
- 1939 Global Cardiac-Specific Transgene Expression Using Cardiopulmonary Bypass With Cardiac Isolation**
Charles R. Bridges, MD, ScD, James M. Burkman, MD, Ramin Malekan, MD, Stefan M. Konig, MD, Hayen Chen, MD, Charles B. Yarnall, BS, Timothy J. Gardner, MD, Alan S. Stewart, MD, Mark M. Stecker, MD, PhD, Terry Patterson, PhD, and Hansel H. Stedman, MD
- CASE REPORTS**
- 1947 Graft-Versus-Host Disease-Type Colitis: An Unusual Association of Malignant Thymoma**
Chady Sader, MBBS, Sanjay Sharma, MBBS, and Mark G. Edwards, FRACS
- 1948 Bronchial Transection Resulting From Trivial Blunt Chest Trauma**
Sreedhar Reddy, MS, Piroze Davierwala, MCh, Pawan Kumar, MS, Nityanand Thakur, MS, Packirisamy Babu, MS, and Anil Tendolkar, MS
- 1950 Seat Belt-Related Chondrosternal Disruption With Lung Herniation**
David Rice, MB, BCh, Naveen Bikkasan, MD, Raphael Espada, MD, Kenneth Mattox, MD, and Matthew Wall, MD
- 1951 Incidental Finding of Myeloproliferative Disorders During Sternotomy**
Maher E. Deeb, MD, Yaron Shargal, MD, Gideon Merin, MD, and Eli Milgalter, MD
- 1952 Giant Mediastinal Chordoma**
A. M. Rahman, MD, Iman G. Farahat, MS, Wael A. Ali, MS, and Kamal A. Mansour, MD
- 1954 Empyema Necessitatis into the Retroperitoneal Space**
Toshihiko Sakamoto, MD, Yoshifumi Miyamoto, MD, Wataru Nishio, MD, Hidehito Matsuoka, MD, and Noriaki Tsubota, MD
- 1956 Chylothorax Associated With Massive Osteolysis (Gorham's Syndrome)**
Koichi Fujiu, MD, Ryuzo Kanno, MD, Hiroyuki Suzuki, MD, Naoya Nakamura, MD, and Mitsukazu Gotoh, MD
- 1957 Large Cell Neuroendocrine Carcinoma: An Unusual Presentation**
Anthony L. Estrera, MD, Philip T. Cagle, MD, Ali Azizzadeh, MD, and Michael J. Reardon, MD
- 1960 Primary Mesenchymal Chondrosarcoma of the Lung**
Hsuan-Ying Huang, MD, Ming-Jang Hsieh, MD, Wei-Jen Chen, MD, Sheung-Fat Ko, MD, Bor-Yau Yang, MD, and Shun-Chen Huang, MD
- 1962 Pulmonary Artery Stenting for Recurrent Lung Cancer After Left Pneumonectomy**
Yuji Asato, MD, Ryuta Amemiya, MD, Moriyuki Kiyoshima, MD, Yasukazu Shiota, MD, and Mikio Asato, MD
- 1964 Pulmonary Infarct Cytologically Mimicking Adenocarcinoma of the Lung**
Roger E. Lawther, MRCS, Alastair N. J. Graham, MD, W. Glenn McCluggage, MRCPATH, and James A. McGuigan, FRCS(Ed)
- 1965 Glucocorticoids and Hippocampal Atrophy After Heart Transplantation**
Asher P. Wilner, MD, Benoit de Varennes, MD, Pierre A. Gregoire, PhD, Sonia Lupien, PhD, and Jens C. Pruessner, PhD
- 1967 Spontaneous Disappearance of a False Aneurysm After Iatrogenic Ruptured Ventricle**
Masayoshi Ito, MD, Hirokazu Murayama, MD, Atsushi Ishida, MD, Souichi Asano, MD, and Yasutsugu Nakagawa, MD
- 1969 Autograft Aortic Arch Extension and Sleeve Resection for Bronchial Compression After Interrupted Aortic Arch Repair**
Max B. Mitchell, MD, David N. Campbell, MD, Warren H. Toews, MD, and Talat Z. Khan, MD
- 1971 Anterior Spinal Artery Syndrome After Elective Coronary Artery Bypass Grafting**
Thomas E. Geyer, MRCS, Madhava J. Naik, FRCS, and Ravi Pillai, FRCS
- 1973 The Ross Procedure for Endocarditis in a 4-Month-Old Infant**
Abdul Aziz S. Al-Baradai, MD, Roger J. F. Baskett, MD, Andrew E. Warren, MD, and David B. Ross, MD
- 1975 Huge Sinus of Valsalva Aneurysm Causing Mitral Valve Incompetence**
Wan Ki Baek, MD, Joung Taek Kim, MD, Yong Han Yoon, MD, Kwang Ho Kim, MD, and Jun Kwan, MD

- 1977 Pulmonary Thromboendarterectomy in a Patient With Giant Cell Arteritis**
Stephanie J. Brister, MD, Kristine Wilson-Yang, PhD, Francesca V. Lobo, MD, Homer Yang, MD, and Richard Skala, MD

- 1979 Stenosed Kinking of the Left Main Coronary Artery Combined With an Aneurysm of the Ascending Aorta**
Paul P. Urbanski, MD, Yvonne Lindemann, MD, and Alexander Siebel, MD

- 1981 Aneurysm of the Left Atrial Appendage**
Pablo Maria Alberto Pomerantzeff, MD, Herbert Martin Freyre, MD, Carlos Manuel de Almeida Brandão, MD, Antonio Carlos Pereira Barreto, MD, and Sérgio Almeida de Oliveira, MD

IMAGES IN CARDIOTHORACIC SURGERY

- 1984 Postoperative Transient Internal Thoracic Artery Pseudoaneurysm**
Ruggero De Paulis, MD, Fabrizio Tomai, MD, and Luigi Chiariello, MD

- 1985 A Prominent Chiari Network**
Hiroyuki Tanaka, MD, Kazuo Ueda, MD, Mikiko Murakami, MD, Satoru Hasegawa, Makoto Sunamori, MD

HOW TO DO IT

- 1986 Double Valve Replacement Through an Aorto-Annulo-Atriotomy Using an Aortic-Valved Graft in a Mitral Position**
Richard Bauset, MD, and François Dagenais, MD

- 1988 Double-Switch Ross Procedure**
Jen-Ping Chang, MD, Chiung-Lun Kao, MD, and Ming-Jang Hsieh, MD

- 1990 A New Pattern for Using Both Thoracic Arteries to Revascularize the Entire Heart: The π -graft**
Sotirios N. Prapas, MD, Constantine E. Anagnostopoulos, MD, Vassilios N. Kotsis, MD, George P. Stavropoulos, MD, Alexis V. Sidiropoulos, MD, Olga G. Ananiadou, MD, and George M. Palatianos, MD

- 1993 Angiographic Results After the Use of a Sutureless Aortic Connector for Proximal Vein Graft Anastomoses**
Lars Wiklund, MD, Mogens Bugge, MD, and Eva Berglin, MD

REVIEWS

- 1995 Tracheal Replacement: A Critical Review**
Hermes C. Grillo, MD

- 2005 Determining the Extent of Cognitive Change After Coronary Surgery: A Review of Statistical Procedures**
Alexander Collie, PhD, David G. Darby, PhD, Marina G. Falletti, BSc (Hons), Brendan S. Silbert, MD, and Paul Maruff, PhD

KEY REFERENCES

- 2012 Photodynamic Therapy in Thoracic Surgery**
Harvey I. Pass, MD

SPECIAL REPORT FROM THE JOINT WORKFORCE COMMITTEE

- 2014 Thoracic Surgery Workforce: Snapshot at the End of the Twentieth Century and Implications for the New Millennium**
Richard J. Shemin, MD, Stanley W. Dziuban, MD, Larry R. Kaiser, MD, James E. Lowe, MD, William C. Nugent, MD, Mehmet C. Oz, MD, Donald A. Turney, MBA, and Jaimie K. Wallace, MPS

- 2026 Sample of Survey used by Workforce**

CORRESPONDENCE

- 2033 Reduction in Tracheostomy-Associated Risk of Mediastinitis by Routine Use of Percutaneous Tracheostomy**
Nirav C. Patel, FRCS (C-Th), and Janet Deane, and Nigel Scawn, FRCA

Reply

Jack J. Curtis, MD, and Nicole C. Clark, BS, and Charlotte A. McKenney, RN, and Joseph T. Walls, MD, and Richard A. Schmaltz, MD, and Todd L. Demmy, MD, and James W. Jones, MD, PhD, and William R. Wilson, Jr, MD, and Colette C. Wagner-Mann, DVM

- 2033 Acute Amiodarone-Induced Pulmonary Toxicity After Lung Operation**
Didier Lardinois, MD, and Alexander Handschin, MD, and Walter Weder, MD

Reply

Harold L. Lazar, MD

- 2034 Blood Hemoglobin as an Independent Prognostic Factor in Surgically Resected Stages I and II Non-Small Cell Lung Cancer Patients**
Joseph Watine, Pharm. D, Eur. Clin. Chem., and Pierre Berteau, MD

Reply

Abdul-Rahman Jazieh, MD, and John A. Howington, MD

- 2035 Combined Aortic and Mitral Valve Operations With Transection of the Ascending Aorta**
Wenlin Wang, MD, PhD, and Kaican Cai, MD

Reply
V. R. Machiraju, MD

- 2036 Vegetectomy in Brucella Endocarditis**
Hasan Sunar, MD, and Enver Duran, MD

Reply
Nilgün Bozbuğa, MD, and Cüneyt Keleş, MD, and Mesut Şişmanoğlu, MD, and Esat Akınic, MD, and Cevat Yakut, MD

- 2036 Is Off-Pump Bypass Better? Adverse Effects of On-Pump Conversion**
Michael C. Sinclair, MD, and Gregory A. Wilsker, and D. Lynn Morris, MD, and Rajeev Mohan, BS, and Christopher S. Hollenbeak, PhD

Reply
Mary E. Plomondon, MSPH, and Joseph C. Cleveland, Jr, MD, and Shann T. Ludwig, MPA, and Gary K. Grunwald, PhD, and Catarina I. Kiefe, MD, PhD, and Frederick L. Grover, MD, and A. Laurie W. Shroyer, PhD

- 2038 Retrograde Cerebral Perfusion**
Anil Bhan, MCh, and Saket Agarwal, MS, and Praveen Saxena, and Panangipalli Venugopal, Mch

- 2038 Transventricular Aortic Cannulation**
Francis Robicsek, MD, PhD

Reply
John B. Flege, Jr, MD

CORRECTION

- 2039 Mangi AA, Gaisser HA, Wright CD, Allan JS, Wain JC, Grillo HC, Mathisen DJ. Benign Bronchoesophageal Fistula in the Adult.**
Ann Thorac Surg 2002;73:911-5.

REVIEW OF RECENT BOOKS

- 2040 Extracorporeal Life Support**
Dan M. Meyer, MD, and Michael E. Jessen, MD

ANNOUNCEMENTS

- | | |
|---------|--|
| A-41-3 | Information for Authors |
| A-44 | Guidelines for Submitting Diskettes of Accepted Manuscripts |
| A-47-48 | Events of Interest |
| 1703 | Internet Discussion Forum |
| 1726 | Requirements for Recertification/Maintenance of Certification in 2002 |
| 1739 | Southern Thoracic Surgical Association Forty-ninth Annual Meeting |
| 1746 | Notice From the American Board of Thoracic Surgery Regarding Trainees and Candidates for Certification Who Are Called to Military Service Related to the War on Terrorism |
| 1777 | Notice from the American Board of Thoracic Surgery |
| A-53 | Information About Membership in The Society of Thoracic Surgeons |
| A-54 | 2003 Annual Meeting of The Society of Thoracic Surgeons |
| A-60 | Classified Advertisements |
| A-68 | Index to Advertisers |
| 2039 | Author Index |
| 2072 | Subject Index |

